Guru Nanak Dev Engineering College

Mailoor Road, Bidar, KA – 585403

Approved by AICTE New Delhi and Affiliated to VTU Belagavi

Criterion 1 – Curricular Aspects

Department of CS&E

INDEX: PROJECT AND INTERNSHIP

1	3GN19CS016	AFSA SHARIYA	MINI PROJECT	CSE
2	3GN19CS040	MD MAQSOOD	MINI PROJECT	CSE
3	3GN19CS049	MOHD AKIFUDDIN	MINI PROJECT	CSE
4	3GN19CS050	MOHD ARBAZ	MINI PROJECT	CSE
5	3GN19CS030	HASAN	MINI PROJECT	CSE
6	3GN19CS035	MAHEK SULTANA	MINI PROJECT	CSE
7	3GN19CS037	MILAH NISHAT	MINI PROJECT	CSE
8	3GN19CS042	MD SAQLAIN SAEED	MINI PROJECT	CSE
9	3GN19CS005	AKHILESH	MINI PROJECT	CSE
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16	3GN19CS023	CHAITANYA	MINI PROJECT	CSE
17	3GN19CS041	MD NOUMAN ALI KHAN	MINI PROJECT	CSE
18	3GN19CS039	MD IRSHAD HUSSAIN	MINI PROJECT	CSE

19	3GN19CS061	MD SOHEL	MINI PROJECT	CSE
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30	3GN19CS081	SANGMESH	MINI PROJECT	CSE
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33	3GN19CS098	SIDDESHWAR	MINI PROJECT	CSE
34	3GN19CS099	SINDOLU AKASH	MINI PROJECT	CSE
35	3GN19CS076	RAMKUMAR	MINI PROJECT	CSE
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37	3GN19CS089	SHAMBHAVI SHEELVANT	MINI PROJECT	CSE
38	3GN19CS113	VAISHNAVI CHILLARGE	MINI PROJECT	CSE
39	3GN19CS117	VARSHITA VANGAPALLI	MINI PROJECT	CSE
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41	3GN19CS088	SARBJEET SINGH	MINI PROJECT	CSE

42	3GN19CS067	NISHCHAYA PATIL	MINI PROJECT	CSE
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44	3GN19CS103	SUSHMITA	MINI PROJECT	CSE
45	3GN19CS104	SUSHMITA	MINI PROJECT	CSE
46	3GN19CS114	VAISHNAVI HUGAR	MINI PROJECT	CSE
47	3GN19CS077	REVATHI PATIL	MINI PROJECT	CSE
48	3GN19CS092	SHIVANI CHAPTE	MINI PROJECT	CSE
49	3GN19CS088	HUMAIRA SHAIKH	MINI PROJECT	CSE
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52	3GN19CS082	SANJANA	MINI PROJECT	CSE
53	3GN19CS045	MD WAJID ALI	MINI PROJECT	CSE
54	3GN19CS024	CHETAN ALMAJE	MINI PROJECT	CSE
55	3GN19CS048	MIRZA MAAZ BAIG	MINI PROJECT	CSE
56	3GN19CS051	MOHD MAHROOF ALI	MINI PROJECT	CSE
57	3GN19CS061	NIMRA	MINI PROJECT	CSE
58	3GN19CS085	ALI QUADRI	MINI PROJECT	CSE
59	3GN19CS087	VIQUAR	MINI PROJECT	CSE
60	3GN19CS066	POOJA	MINI PROJECT	CSE
61	3GN19CS123	DARSHAN RAMPURE	MINI PROJECT	CSE
62	3GN19CS078	ROHAN	MINI PROJECT	CSE
63	3GN19CS076	RAMKUMAR	MINI PROJECT	CSE
64	3GN18CS002	ACHARI SANTOSH	MINI PROJECT	CSE

65	3GN18CS008	AMBIKA	MINI PROJECT	CSE
66	3GN18CS047	MD SHAGILL AMAAN	MINI PROJECT	CSE
67	3GN18CS061	MD, SOHAIL	MINI PROJECT	CSE
68	3GN18CS062	WAHED ALI	MINI PROJECT	CSE
69	3GN19CS007	AKSHATA BHALKE	MINI PROJECT	CSE
70	3GN19CS019	BHAVANA	MINI PROJECT	CSE
71	3GN19CS021	BHAVANI	MINI PROJECT	CSE
72	3GN19CS025	DIVYASHALA	MINI PROJECT	CSE
73	3GN19CS026	FAIZA M	MINI PROJECT	CSE
74	3GN19CS027	GANESH	MINI PROJECT	CSE
75	3GN19CS021	BAHAVANI	MINI PROJECT	CSE
76	3GN19CS032	JASMEET SINGH	MINI PROJECT	CSE
77	3GN19CS036	MAKRAND	MINI PROJECT	CSE
78	3GN19CS038	MASROOR FATIMA	MINI PROJECT	CSE
79	3GN19CS043	MD.SHAKEEL AHMED	MINI PROJECT	CSE
80	3GN19CS046	MEGHA M	MINI PROJECT	CSE
81	3GN19CS053	NABI SAAB	MINI PROJECT	CSE
82	3GN19CS056	NAGMA SHAHEEN	MINI PROJECT	CSE
83	3GN19CS057	NAJMA BEGUM	MINI PROJECT	CSE
84	3GN19CS058	NAZIYA SAHER	MINI PROJECT	CSE
85	3GN19CS084	SHABNAM FATIMA	MINI PROJECT	CSE
86	3GN19CS101	SOUMYA	MINI PROJECT	CSE
87	3GN19CS062	PALLAVI	MINI PROJECT	CSE

88	3GN18CS110	SAYED JUNAID AHMED	MINI PROJECT	CSE
89	3GN18CS074	REVAN SIDDESH S	MINI PROJECT	CSE
90	3GN18CS101	SHWETA GARE	MINI PROJECT	CSE
91	3GN18CS104	SNEHA	MINI PROJECT	CSE
92	3GN19CS063	PAVAN	MINI PROJECT	CSE
93	3GN19CS064	PAVAN KUMAR	MINI PROJECT	CSE
94	3GN19CS065	POOJA	MINI PROJECT	CSE
95	3GN19CS067	POOJA ANDUR	MINI PROJECT	CSE
96	3GN19CS068	PRARTHANA THORE	MINI PROJECT	CSE
97	3GN19CS071	PRIYA	MINI PROJECT	CSE
98	3GN19CS074	PUNEET	MINI PROJECT	CSE
99	3GN19CS075	RAJKUMAR	MINI PROJECT	CSE
100	3GN19CS079	SAI KIRAN	MINI PROJECT	CSE
101	3GN19CS080	SANA BANU	MINI PROJECT	CSE
102	3GN19CS086	SHAH KAMRAN	MINI PROJECT	CSE
103	3GN19CS091	SHAZEEB TALHA	MINI PROJECT	CSE
104	3GN19CS093	SHIVANI M	MINI PROJECT	CSE
105	3GN19CS094	SHIVSHANTH	MINI PROJECT	CSE
106	3GN19CS095	SHARDHA	MINI PROJECT	CSE
107	3GN19CS096	SHREYA MAHAJAN	MINI PROJECT	CSE
108	3GN19CS097	SHWETA	MINI PROJECT	CSE
109	3GN19CS102	SUPRIYA RAO	MINI PROJECT	CSE
110	3GN19CS105	SWATI	MINI PROJECT	CSE

111	3GN19CS096	UBAID KASHIF	MINI PROJECT	CSE
112	3GN19CS115	VAISHNAVI K	MINI PROJECT	CSE
113	3GN19CS118	VIJAYLAXMI BAI	MINI PROJECT	CSE
114	3GN18CS039	KALYAN KUMAR	MINI PROJECT	CSE
115	3GN18CS012	AMBIKA	MINI PROJECT	CSE
116	3GN18CS047	M AKASH KUMAR	MINI PROJECT	CSE
117	3GN19CS041	MD NOUMAN ALI KHAN	MINI PROJECT	CSE
118	3GN19CS029	GURPREET SINGH	MINI PROJECT	CSE
119	3GN19CS014	ANKUSH KANJIKAR	MINI PROJECT	CSE
120	3GN19CS012	ANAMIKA	MINI PROJECT	CSE
121	3GN19CS013	ANJALI JAINAPURE	MINI PROJECT	CSE
122	3GN18CS110	SAYED JUNAID AHMED	MINI PROJECT	CSE
123	3GN19CS008	ALEENA	MINI PROJECT	CSE
124	3GN19CS010	AMISHA BEMALKHEDKAR	MINI PROJECT	CSE
125	3GN19CS054	NAGESH	MINI PROJECT	CSE
126	3GN19CS015	ARUN PATIL	MINI PROJECT	CSE
127	3GN19CS044	MD SHOIEB ALI	MINI PROJECT	CSE
128	3GN19CS119	VILAS BIRADAR	MINI PROJECT	CSE
129	3GN19CS121	VINAY KUMAR S JABNOR	MINI PROJECT	CSE
130	3GN19CS122	ZEENATH FATIMA	MINI PROJECT	CSE
131	3GN19CS109	TANZEEL MARYAM	MINI PROJECT	CSE
132	3GN19CS073	PRIYANKA B	MINI PROJECT	CSE
133	3GN19CS106	SYED ZEESHAN HASHMI	MINI PROJECT	CSE

134	3GN19CS120	VINAY	MINI PROJECT	CSE
135	3GN19CS116	VAISHNAVI SHERIKAR	MINI PROJECT	CSE
136	3GN19CS034	M A MUQTADIR	MINI PROJECT	CSE
137	3GN19CS107	SYEDA RUMANA SHIREEN	MINI PROJECT	CSE
138	3GN19CS100	SOUUNDARYA ALLE	MINI PROJECT	CSE
139	3GN19CS031	ISHPREET KAUR	MINI PROJECT	CSE
140	3GN19CS028	GOLDEN KUMAR	MINI PROJECT	CSE
141	3GN18CS001	ABHISHEK	INTERNSHIP	CSE
142	3GN18CS003	AFREEN ANJUM	INTERNSHIP	CSE
143	3GN18CS004	AISHWARYA	INTERNSHIP	CSE
144	3GN18CS006	AISHWARYA CHELVA	INTERNSHIP	CSE
145	3GN18CS007	AISHWARYA PATIL	INTERNSHIP	CSE
146	3GN18CS009	AKSHATA PATIL	INTERNSHIP	CSE
147	3GN18CS010	AKSHAY KUMAR	INTERNSHIP	CSE
148	3GN18CS011	AMANDEEP KAUR	INTERNSHIP	CSE
149	3GN18CS014	AMREEN NAAZNEEN	INTERNSHIP	CSE
150	3GN18CS015	ANMOL PREET SINGH	INTERNSHIP	CSE
151	3GN18CS016	APOORVA S PATIL	INTERNSHIP	CSE
152	3GN18CS018	AYESHA BEGUM	INTERNSHIP	CSE
153	3GN18CS019	BASAVAPRIYA	INTERNSHIP	CSE
154	3GN18CS021	BHAGYASHREE	INTERNSHIP	CSE
155	3GN18CS022	BHAGYAVANTI BIRADAR	INTERNSHIP	CSE
156	3GN18CS023	BIRADAR AISHWARYA RAVINDRA	INTERNSHIP	CSE
157	3GN18CS024	DEEPIKA	INTERNSHIP	CSE
158	3GN18CS026	DINESH KALSE	INTERNSHIP	CSE
159	3GN18CS027	DIVYA RANI	INTERNSHIP	CSE
160	3GN18CS028	FATIMA BEGUM	INTERNSHIP	CSE
161	3GN18CS029	GANESH	INTERNSHIP	CSE
162	3GN18CS030	GURPREET KAUR	INTERNSHIP	CSE
163	3GN18CS031	H MRUTTUNJAY	INTERNSHIP	CSE
164	3GN18CS032	HAFSA FATIMA	INTERNSHIP	CSE
165	3GN18CS033	IBTESAM MAHVEEN	INTERNSHIP	CSE
166	3GN18CS034	IBTESAM ZARRINE	INTERNSHIP	CSE

167	3GN18CS035	IMRAN MUDASIR	INTERNSHIP	CSE
168	3GN18CS036	JADHAV KRITIKA KONDU	INTERNSHIP	CSE
169	3GN18CS037	K S SHASHANK	INTERNSHIP	CSE
170	3GN18CS038	KAILASH	INTERNSHIP	CSE
171	3GN18CS040	KAVYA	INTERNSHIP	CSE
172	3GN18CS041	KAVYA	INTERNSHIP	CSE
173	3GN18CS042	KIRAN	INTERNSHIP	CSE
174	3GN18CS043	KIRAN	INTERNSHIP	CSE
175	3GN18CS044	KONAPUR ANAND	INTERNSHIP	CSE
176	3GN18CS045	KRISHNAKANT RAMRAO SONJI	INTERNSHIP	CSE
177	3GN18CS046	LISHA J PATEL	INTERNSHIP	CSE
178	3GN18CS048	MAMATA	INTERNSHIP	CSE
179	3GN18CS049	MANSEE PATHAK	INTERNSHIP	CSE
180	3GN18CS050	MANSI	INTERNSHIP	CSE
181	3GN18CS051	MARSHAL KEVIN	INTERNSHIP	CSE
182	3GN18CS053	MD HAJI ALI	INTERNSHIP	CSE
183	3GN18CS054	MD IMRAN AHMED	INTERNSHIP	CSE
184	3GN18CS055	MD IMRANUDDIN	INTERNSHIP	CSE
185	3GN18CS056	MD IRFAN HUSSAIN	INTERNSHIP	CSE
186	3GN18CS057	MD NASRULLAH KHAN	INTERNSHIP	CSE
187	3GN18CS060	MD SHUJAATH KHAN	INTERNSHIP	CSE
188	3GN18CS087	SANKHLA MUKESH	INTERNSHIP	CSE
189	3GN17CS028	HUZEFA UNNISA	INTERNSHIP	CSE
190	3GN17CS081	SHAIK SAADULLAH	INTERNSHIP	CSE
191	3GN17CS093	SHRUTI BIRADAR	INTERNSHIP	CSE
192	3GN17CS120	ZAHOOR S	INTERNSHIP	CSE
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194	3GN18CS064	MOHAMMED RUMAN KHAN	INTERNSHIP	CSE
195	3GN18CS065	MOHD ZEESHAN KHAN	INTERNSHIP	CSE
196	3GN18CS066	NISHA	INTERNSHIP	CSE
197	3GN18CS068	OPHELIA	INTERNSHIP	CSE
198	3GN18CS069	PALLAVI	INTERNSHIP	CSE
199	3GN18CS070	PANKAJ	INTERNSHIP	CSE
200	3GN18CS071	PRIYA	INTERNSHIP	CSE
201	3GN18CS072	RACHAYYA SWAMY	INTERNSHIP	CSE
202	3GN18CS073	RASHMI JOSHI	INTERNSHIP	CSE
203	3GN18CS076	RUSHIKESH CHAVAN	INTERNSHIP	CSE

204	3GN18CS078	SABA SHIREEN	INTERNSHIP	CSE
205	3GN18CS079	SAGAL SINGH KHANUJA	INTERNSHIP	CSE
206	3GN18CS080	SAIMA SAMREEN	INTERNSHIP	CSE
207	3GN18CS081	SAKSHI K DOIJODE	INTERNSHIP	CSE
208	3GN18CS082	SAMREEN FATIMA	INTERNSHIP	CSE
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210	3GN18CS084	SANGAMESH PATIL	INTERNSHIP	CSE
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215	3GN18CS091	SHABISTA MEHRISH	INTERNSHIP	CSE
216	3GN18CS092	SHAH PASHA MOHIUDDIN QUADRI	INTERNSHIP	CSE
217	3GN18CS093	SHARAN SABARWAL	INTERNSHIP	CSE
218	3GN18CS094	SHEETAL G	INTERNSHIP	CSE
219	3GN18CS095	SHIVAMANGALA	INTERNSHIP	CSE
220	3GN18CS096	SHRADHA PATIL	INTERNSHIP	CSE
221	3GN18CS097	SHREYA AURADKAR	INTERNSHIP	CSE
222	3GN18CS098	SHRUTI SUMAN	INTERNSHIP	CSE
223	3GN18CS099	SHWETA SONNA	INTERNSHIP	CSE
224	3GN18CS100	SHWETA VAIJINATH	INTERNSHIP	CSE
225	3GN18CS102	SIDDALINGA	INTERNSHIP	CSE
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228	3GN18CS107	SULUXSHANA	INTERNSHIP	CSE
229	3GN18CS108	SUMA	INTERNSHIP	CSE
230	3GN18CS109	SUSHMA HUMNABADE	INTERNSHIP	CSE
231	3GN18CS113	ROHIT N	INTERNSHIP	CSE
232	3GN18CS114	TRIVENI	INTERNSHIP	CSE
233	3GN18CS115	TUFAIL MOHAMMED	INTERNSHIP	CSE
234	3GN18CS116	UNSIYA MAHEEN	INTERNSHIP	CSE
235	3GN18CS117	VAISHNAVI	INTERNSHIP	CSE
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237	3GN18CS119	VAISHNAVI	INTERNSHIP	CSE
238	3GN18CS120	VAISHNAVI KATKAM	INTERNSHIP	CSE
239	3GN18CS122	VINAYASHREE	INTERNSHIP	CSE
240	3GN18CS124	YUVRAJ	INTERNSHIP	CSE
241	3GN19CS400	OMKAR M	INTERNSHIP	CSE

242	3GN17CS076	SANGMESH H	INTERNSHIP	CSE

GURU NANAK DEV ENGINEERING COLLEGE

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

BIDAR-585403

Certificate

Certified that the Mini Project Work Project Work entitled "FARM MANAGEMENT SYSTEM" carried out by ASFA SHARIYA(3GN19CS016), MD MAQSOOD ALI(3GN19CS040), MOHD AKIFUDDIN(3GN19CS049), MOHD ARBAZ(3GN19CS050) Bona fide students of "GURU NANAK DEV ENGINEERING COLLEGE" in partial fulfilment for the 5TH SEM of Bachelor of Engineering degree in CSE of Visvesvaraya Technological University, Belagavi during the academic year 2021-2022. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The project report has been approved as it satisfies the academic requirements in respect of DBMS Laboratory with Mini Project(18CSL58) prescribed for the said Degree.

21/12/22

Signature of guide
Prof. ASHWINI MANKAL

Signature of HOD
Dr. DAYANAND J

EXTERNAL EXAMINATION

Name of the Examiners

Signature with date

1.

2.

Head of Computer Science & Engineering Department, Guru Nanak Dev Engineering College BIDAR-585 403 (Karnataka)

PRINCIPAL
Guru Nanak Dev Engg. College, Bidar

ABSTRACT

The agro marketing strategic vision and effectiveness can be achieved with electronic commerce-related concepts , guidelines and tools are applied as directed by a thorough and systematic approach. The site helps the farmers to sell their perishable agricultural product online and suggests best-in-practice farming processes. It providing a wider market and helping them to not restrict themselves to the local market . it helps the wholesalers and retailers in buying produce from a large number of farmers. It enables wholesalers and retailers in expanding their business. It features online shopping for farming commodities fertilizers, pesticides, machinery & tools, etc. It helps the farmers to keep track of their production with features such as virtual calendar, forecasting, etc. and enables them to hire labourers to find small jobs by having a work profile in the website. The aim is to automate its existing manual system by the help of computerized equipment and full-fledged computer software, fluffing their requirements, so that their valuable data/information can be stored for a longer period with easy accessing and manipulation of the same. Basically the project describes how to manage for good performance and better services for the clients.

PRINCIPAL
Engg. College, Bidar

GURU NANAK DEV ENGINEERING COLLEGE

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

BIDAR-585403

CERTIFICATE

Certified that the Mini Project Work Project Work entitled "PACMAN" carried out by HASAN(3GN19CS030), MAHEK SULTANA(3GN19CS035), MALIHA NISHAT(3GN19CS037), MD SAQLAIN SAEED(3GN19CS042) Bonafide students of "GURU NANAK DEV ENGINEERING COLLEGE" in partial fulfilment for the 6TH SEM of Bachelor of Engineering degree in CSE of Visvesvaraya Technological University, Belagavi during the academic year 2021-2022.

Signature of guide
Prof. MASRATH BEGUM

Signature of HOD
Dr. DAYANAND J

EXTERNAL EXAMINATION

Name of the Examiners	Signature with date
1.	20/7/22
2.	20/7/22

PRINCIPAL
Guru Nanak Dev Engg. College, Bidar

ABSTRACT

- Main aim of this Mini Project is to illustrate the concepts and usage of pre-built functions in OpenGL.
- Creating objects and games like PacMan using Opengl library.
- When the location of PacMan is in + or – 10 pixels range of round spears the spears of that location are translated out of view port which creates an illusion as if PacMan has eaten that object.
- When location of PacMan is in range of rotating blades, then the looping function is changed.
- We have used input devices like mouse and key board to interact with program

GURU NANAK DEV ENGINEERING COLLEGE BIDAR

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

CERTIFICATE

This is to certify that the project work entitled "**Railway Reservation**" has been successfully carried out by Akhilesh 3GN19CS005, Aman 3GN19CS009, Akash.J 3GN19CS004, B. Abhijeet 3GN19CS022, **Guru Nanak Dev Engineering College** in partial fulfilments of the requirements for the 5th semester in **Bachelor of Engineering in Computer science and Engineering** of **Visvesvaraya Technological University, Belagavi** during academic year 2021-2022. The project report has been approved as it satisfies the academic requirements in respect of project work for the said degree.

21/1/2022

Prof. Ashwini Mankal

PROJECT GUIDE

Dr. Dayanand J.

HOD

Examiner's Signatures:

1.

2.

Head of Computer Science & Engineering Department,
Guru Nanak Dev Engineering College,
BIDAR-585 403 (Karnataka)

PRINCIPAL
Guru Nanak Dev Engg. College, Bidar

ABSTRACT

The Railway Reservation System facilitates the passengers to enquire about the trains available on the basis of source and destination, Booking and Cancellation of tickets, enquire about the status of the booked ticket, etc. The aim of case study is to design and develop a database maintaining the records of different trams, train status, and passengers

This project contains Introduction to the Railways reservation system .It is the computerized system of reserving the seats of train seats in advanced. It is mainly used for long route. On-line reservation has made the process for the reservation of seats very much easier than ever before

In our country India, there are number of counters for the reservation of the seats and one can easily make reservations and get tickets. Then this project contains entity relationship model diagram based on railway reservation system and introduction to relation model. There is also design of the database of the railway reservation system based on relation model. Example of some SQL queries to retrieves data from rail management database.

PRINCIPAL
Guru Nanak Dev Engg. College, Bidar

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI

GURU NANAK DEV ENGINEERING COLLEGE, BIDAR-585403, KARNATAKA

DEPT. OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE

This is to certify that the mini project work entitled **"TOURISM MANAGEMENT SYSTEM"** is a bonafide work carried out by AISHWARYA (3GN19CS002), ANAMIKA (3GN19CS012), B SHIVANI (3GN19CS018), CHAITANYA (3GN19CS023) in partial fulfillment of the requirements for the award B.E in computer science and engineering by visvesvaraya technological university, belagavi during academic year 2021-2022. It is certified that the mini project report has been approved as it satisfies the academic requirements in respect of the mini project work prescribed for B.E.

21/1/2022

Signature of guide

Prof. ASHWINI MANKAL

Signature of HOD

Dr. DAYANAND
Head of Computer Science & Engineering Department,
Guru Nanak Dev Engineering College,
BIDAR-585 403 (Karnataka)

EXAMINER 1:

EXAMINER 2:

PRINCIPAL
Guru Nanak Dev Engg. College, Bidar

ABSTARCT

As the name specific **"TOURISM MANAGEMENT SYSTEM"** is a software developed for managing tour booking. Identification of the drawback of the existing system leads to the designing of the computerized system that will be compatible to the existing system with the system which is more user friendly and more GUI oriented.

We can improve the efficiency of the system, thus overcome the drawbacks of the existing system. Less human error. Strength and strain of manual labor can be reduced.

High Security, Data Redundancy can be avoided to some extent. Data consistency, Easy to handle, Easy data updating, Easy record keeping, Backup data can be easy generated.

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BIDAR-585403,KARNATAKA

DEPARTMENTOFCOMPUTERSCIENCEANDENGINEERING

CERTIFICATE

Thisistocertify thattheminiproject work , entitled**"TAJ MAHAL ANIMATION"**isabonafideworkcarriedoutby **MDNOUMANALI KHAN(3GN19CS041) , MD IRSHAD HUSSAIN(3GN19CS039) , MD SOHEL(3GN18CS061)**in partial fulfillment ofthe requirements for theBachelor'sdegreeinComputerScienceandEngineeringofthe **Visvesvaraya Technological University, Belagavi** during theacademicyear 2021-2022.

SignatureofGuide
Prof.Masrath Begum

Signature of HOD
Prof.DAYANANDJ

Examiner'sSignatures:

1. 20/7/22
2. 20/7/22

PRINCIPAL
Guru Nanak Dev Engg. College, Bidar

ABSTRACT

Computer Graphics has grown into a very important topic in the branch of ComputerScience. This is due to an effective and rapid communication formed between man and themachine. Human eye can absorb the information in a displayed diagram or perspective diagrammuch fasterthan it can scan apageor atableof contents.

This project " **TAJ MAHAL ANIMATION** " demonstrates the creation of variouspolygons by giving the number of vertices as input. The user is also given the option to see thepolygon from different views. OpenGL is used to make this possible by virtue of its variousfunctionalities.

Wecangeneratesimplegeometricfiguresliketriangle,square,circleandvariouspolygonsbygivingthenumberofsidesfromusersinput.Polygonsliketriangle,square,pentagonandsooncanbegeneratedwithease.Wealsoincludetiltingandmovingpropertiesforthevariouspolygons.

The code implemented makes use of various OpenGL functions for translation, rotationand keyboard callback function, built-in functions for solids and many more. The concepts ofcomputergraphicsstandabackbonetoachievetheaforementionedidea.Primitivedrawing,eventdriven interactions and basic animation have been the important concepts brought out by thisapplication.

Thereportischalkedoutintosectionsdescribingthebasicrequirementssupersededbythebriefing on functions used. Following this, the detailed description of how the implementation isdone effectively using these functions and C language is presented. The source code is providedalong with necessary commentsto enhance readability of code. The screenshots have beenprovidedforameliorationofourlittleeffort.

PRINCIPAL
Guru Nanak Dev Engg. College, Bidar

DEPT. OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE

This is to certify that the mini project work entitled "**RESTAURANT MANAGEMENT SYSTEM**" is a bonafide work carried out by AMULYA RATNA.J(3GN19CS011), NEHA MASHETTY (3GN19CS059), ABDUL ANAS UMAR(3GN19CS001)MD.NOUMAN ALI KHAN (3GN19CS041) MD IRSHAD HUSSIAN(3GN19CS039) in partial fulfillment of the requirements for the award of B.E. in Computer Science and Engineering by Visvesvaraya Technological University, Belagavi during Academic year 2018-2019. It is certified that mini project report has been approved as it satisfies the academic requirements in respect of the mini project work prescribed for B.E

21/11/2022

Signature of guide

Prof. ASHWINI MANKAL

Examiner 1:

Examiner 2:

Signature of HOD

Dr. DAYANAND J

Head of Computer Science & Engineering Department,
Guru Nanak Dev Engineering College,
BIDAR-585 403 (Karnataka)

PRINCIPAL

Guru Nanak Dev Engg. College, Bidar

Abstract

The restaurant management software is a capstone project that aims towards developing an all-in-one application that addresses the various problems and challenges faced by high-end restaurant owners today . In order to achieve this goal, this project addresses various aspects of the modern business . It allows its users to access a variety of functionalities that are essential to the culinary business . Given that this project encapsulates more than one interface, it is by nature rich when it comes to the number of functionalities that are offered and these vary depending on the user's role. For example, it allows the waiter to take user orders through a straightforward, user-friendly, and smooth interface . All in all, this projects main aim is to reduce the time overhead in highend management restaurants by providing an alternative to the traditional management system based on physical record keeping and paper work.

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GURU NANAK DEV ENGINEERING COLLEGE

BIDAR-585403, KARNATAKA

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE

This is certified that the mini project work entitled **"DISTANCE STUDIES ONLINE EDUCATION SYSTEM"** is a Bonafede work carried out by **AKANKSHA (3GN19CS003), KRUPA (3GN19CS033), NAGESHWARI (3GN19CS055), NIKITA (3GN19CS060)** in partial fulfillment of the requirements for the award of B.E in Computer Science and Engineering by the Visvesvaraya Technological University, Belagavi during Academic year 2021 -2022. It is certified that the mini project report has been approved as it satisfies the academic requirements in respect of the mini project work prescribed for the B.E.

21/11/2021

Signature of Guide
Prof. ASHWINI MANKAL

Signature of HOD
Dr. DAYANAND J
Head of Computer Science & Engineering Department,
Guru Nanak Dev Engineering College
BIDAR-585 403 (Karnataka)

NAME OF EXAMINERS

1). _____ 1) _____

2). _____ 2) _____

PRINCIPAL
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ABSTRACT

Online Long-Distance Studies is developed in web-based platform. This project is implemented by taking reference of many online education sites. This web portal is implemented is basic features that are required to provide online education. In present trend usage of internet users are increasing at the same time education through online had become a new trend for sharing knowledge from all around the world.

This application is useful for students from all over the world and communicate with different countries educational institutes and gain knowledge on the subject.

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE

This is certified that the mini project work entitled **"COMPANY PLACEMENT SUPPORT SERVICES"** is a bonafide work carried out by **PRAVEEN KUMAR (3GN19CS070), SANGAMESH (3GN19CS081), SARABJYOT KAUR(3GN19CS083)** in partial fulfillment of the requirements for the award of B.E in Computer Science and Engineering by the Visvesvaraya Technological University, Belagavi during Academic year 2021 -2022. It is certified that the mini project report has been approved as it satisfies the academic requirements in respect of the mini project work prescribed for the B.E. ~~ACE~~ *CSE*

Signature of Guide

Signature of HOD

NAME OF EXAMINERS	SIGNATURE WITH DATE
1) Ashwini M	28/3/22
2) Suresh. C	28/03/22

PRINCIPAL
Guru Nanak Dev Engg. College, Bid-

ABSTRACT

Job portal is a web application that provides a platform for candidates seeking job and the employers to share their needs. They enter the job details such that job title, vacancies, last date of application, etc. Then they enter the question paper. It includes the questions, the choices and the correct answer. After the exam has been written by the seekers, the result can be viewed such that the top rankers for the particular exam. In addition, the provider can see the resume details of the particular job applicant. The seekers enter into the web site, create their logins and enter the resume details

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GURU NANAK DEV ENGINEERING COLLEGE,

BIDAR-585403, KARNATAKA

CERTIFICATE

This is to certify that the mini project work entitled "ZOO MANAGEMENT SYSTEM" is a Bonafide work carried out by **SHANTVEER(3GN19CS090), SIDDESHWAR (3GN19CS098), SINDOLU AKASH (3GN19CS099) and RAMKUMAR (3GN19CS076)** in partial fulfilment of the requirements for the Bachelor's degree in Computer Science and Engineering of the Visvesvaraya Technological University, Belagavi during the academic year 2021-2022.

Signature of Guide

Prof. SURESH CHIMKODE

Signature of HOD

Dr.Dayanand J

EXTERNAL VIVA:

Examiners:

1) ..... 2) .....

PRINCIPAL
Guru Nanak Dev Engg. College, Bidar

ABSTRACT

Job portal is a web application that provides a platform for candidates seeking job and the employers to share their needs. They enter the job details such that job title, vacancies, last date of application, etc. Then they enter the question paper. It includes the questions, the choices and the correct answer. After the exam has been written by the seekers, the result can be viewed such that the top rankers for the particular exam. In addition, the provider can see the resume details of the particular job applicant. The seekers enter into the web site, create their logins and enter the resume details

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BELAGAVI

BIDAR-585403, KARNATAKA

GURU NANAK DEV ENGINEERING COLLEGE

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE

This is to certify that the mini project work entitled **"Vehicle parking management system"** is a bonafide work carried out by PRATIKSHA ULLAGADDI, SHAMBHAVI SHEELVANT, VAISHNAVI CHILLARGE, VARSHITA VANGAPALLI in the partial fulfiment of the requirements for the Bachelor's Degree in Computer Science and engineering of Vieshvesvaraya Technological University, Belagavi during the academic year 2021-2022.

Signature of Guide

Signature of H.O.D

Head of Computer Science & Engineering Department, Guru Nanak Dev Engineering College BIDAR-585 403 (Karnataka)

EXTERNAL VIVA:

Examiners: 1)..... 2).....

26/3/22

1RES069, 089, 113, 117

PRINCIPAL
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VEHICLE PARKING MANAGEMENTR SYSTEM

1. ABSTRACT

The online vehicle parking reservation system is system that enables customers/drivers to reserve a parking space. It also allows the customer/drivers to view the parking status at keybando people's park, It was developed because the congestion and collision of the vehicle, the system was developed for kyebando people's park located in kyebando. Therefore the project aimed at solving such problem designing a web based system that will enable the customer driver to make reservation of available parking space at people's park.

The requirements for the developed system were collected using observation and interview the customer and staff members from keybando people's park. The designed system was implemented using different development tools which HTML for creating interface, CSS for styling wed pages, Java, Script, and jquery for dynaism in the web pages and as input validation tool .XAMMPO was used to cbuild the data base and PHP used as a server side scripting language connect to the user interface to the data base. The system tested by the researches for errors.

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE

This is certified that the mini project work entitled **"AIRLINE FLIGHT RESERVATION SYSTEM"** is a bonafide work carried out by **TAJINDER SINGH (3GN19CS108), SARABJEET SINGH (3GN18CS088), NISHCHAYPATIL (3GN18CS067), MD MOHIUDDIN KAIF (3GN18CS063)**in partial fulfillment of the requirements for the award of B.E in Computer Science and Engineering by the Visvesvaraya TechnologicalUniversity,BelagaviduringAcademicyear2021-2022.Itiscertifiedthatthemini project report has been approved as it satisfies the academic requirements in respect of the mini project work prescribed for theB.E.

18/1/22

Signature of Guide
Prof. SURESH CHIMKODE

Signature of HOD
Dr. DAYANAND J
Head of Computer Science & Engineering Department,
Guru Nanak Dev Engineering College
SIGNATURE WITH DATE

NAMEOFEXAMINERS

1. Suresh. C
2. Ashwini M

1. 18/1/22
2. 18/1/22

PRINCIPAL
Guru Nanak Dev Engg. College, Bidar

ABSTRACT

Airline reservation systems were first introduced in the late 1950s as relatively simple [illegible] systems to control flight inventory, maintain flight schedules, seat assignmentsand [illegible] loading. The modern airline reservation system is comprehensive suite of products to provide a system that assists with a variety of airline management tasks and service customer needs from the time of initial reservation through completion of theflight.

[illegible]onemostcommonmodesoftravelistravelingbyair.Customerswhowishtotravelby [illegible]nowadaysshaveawidevarietyofairlinesandarangeoftimingstochoosefrom.Nowadays competition is so fierce between airlines that there are lot of discounts and a lot of luxuries given to customers that will give an edge to that particularairline.

The WorldWideWebhas becometremendouslypopularoverthelastfouryears,andcurrently most of the airlines have made provision for online reservation of their flights. The Internet has become a major resource for people looking for making reservations online without the hassleofmeetingtravelagents.MyProjectintendstoservethesepurposes.Itintendstocheck all the available airline databases and return a string of results, which can help them in their travelplans.

The objective of this project is to create an airline reservation system where a traveler can request all flight information as per their journey dates. They can get information regarding time, cost, etc all at the same time and place. When the customer calls the Counter Assistant for his/her travel needs, the counter assistant will enter the customer's details (flight requirements) in the system. The system displays all the available airlines, schedules and prices. This system would help the airline to better serve its customers by catering to their needs. The site would use a Database to hold this information as well as the latest pricing and availability information for the airlines.

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BIDAR – 585401 (KARNATAKA)

DEPARTMENT OF

COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE

This is to certify that the project entitled "ONLINE LIBRARY MANAGEMENT SYSTEM" is a bonafidework carried out by, SUSHMITA (3GN19CS103) , SUSHMITA (3GN19CS104), VAISHNAVI HUGAR (3GN19CS114)bonafide students of GNDEC College of Engineering in partial full fillment of requirement for the 5th semester of bachelor of engineering in Computer Science and Engineering from the Visvesvaraya Technological University, Belagavi during the year 2021-2022.It is certified that the correction/suggestion indicated for internal Assessment have been incorporated in the Report .The project report has been approved as it satisfies the academic requirements of project works prescribed for the fifthsemester.

Signature of Guide

Name

1. Sushmita M
2. Sushmita C

Signature of HOD

Dr.DAYANAND J

28/3/22

28/3/22

PRINCIPAL
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ABSTRACT

Online Library Management System is a system which maintains the information about the books present in the library, their authors, the members of library to whom books are issued, library staff and all. This is very difficult to organize manually. Maintenance of all this information manually is a very complex task.

Owing to the advancement of technology, organization of an Online Library becomes much simple. The Online Library Management has been designed to computerize and automate the operations performed over the information about the members, book issues and returns and all other operations. This computerization of library helps in many instances of its maintenances. It reduces the workload of management as most of the manual work done is reduced

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BELAGAVI

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE

This is to certify that the mini project work entitled "TRAVELLERS CITY INFORMATION" is a bonafide work carried out by REVATHI PATIL (3GN19CS077), SHIVANI CHAPTE (3GN19CS092), HUMAIRA SHAIKH (3GN19CS088), AZHAR SHAIKH (3GN19CS017) in partial fulfillment of the requirements for the award B.E in computer science and engineering by Visvesvaraya technological university, Belagavi during academic year 2021-2022. It is certified that the mini project report has been approved as it satisfies the academic requirements in respect of the mini project work prescribed for B.E.

Signature of Guide

Signature of HOD

NAME OF EXAMINERS	SIGNATURE WITH DATE
1. Gaurprasad	1.
2. Mayuri K MD 26/5/22	2.

PRINCIPAL
Guru Nanak Dev Engg. College, Bidar

ABSTRACT

As the name specific "TRAVELLERS CITY INFORMATION" is a software developed for managing tour booking. Identification of the drawback of the existing system leads to the designing of the computerized system that will be compatible to the existing system with the system which is more user friendly and more GUI oriented.

We can improve the efficiency of the system, thus overcome the drawbacks of the existing system. Less human error. Strength and strain of manual labor can be reduced.

High Security, Data Redundancy can be avoided to some extent. Data consistency. Easy to handle, Easy data updating, Easy record keeping, Backup data can be easy generated.

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DEPARTMENT OF

COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE

This is certified that the mini project work entitled **"AIRPLANE TAKEOFF"** is a bonafide work carried out by **BHAVANESHWARI (3GN19CS020), SANJANA (3GN19CS082)** in partial fulfillment of the requirements for the award of B.E in Computer Science and Engineering by the Visvesvaraya Technological University, Belagavi during Academic year 2021 -2022. It is certified that the mini project report has been approved as it satisfies the academic requirements in respect of the mini project work prescribed for the B.E.

Signature of Guide
Prof. MASARATH B

Signature of HOD
Dr. DAYANAND J

EXAMINARS NAME

1. _____

2. _____

SIGNATURE AND DATE

1. _____

2. _____

PRINCIPAL
Guru Nanak Dev Engg. College, Bidar

ABSTRACT

Rapid and unimaginable advancement in technology and considerable growth in developing countries economy in a last decade has propelled a huge development in a aviations sector. Commercial aviation sector is no more only a medium of transportation, but it too cares of various luxurious needs of a human. Likewise military aviations sector is not only about killing enemy, [illegible]oming back safely. In both the aforesaid cases, based on various factor is prerequisite and of paramount importance. In Aircraft Design Project-1(ADP-1), we have elaborately discussed design based on the weight and wing loading consideration for a CARGO AIRPLANE. In weight calculation, we analyzed engines takeoff, climb, range, endurance, landing etc . In wing loading calculation we analyzed Take Off Parameter (TOP). Take Off Distance (Sto), Wing loading, landing distance (SL) etc. In Aircraft Design Project -2 (ADP-2) is the continuation of a ADP-1 in which we will discuss other designing aspects like v-n diagram, load factor, stall velocity, critical loading, maneuvering loads etc.

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE

This is to certify that the mini project work entitled **"FUN WITH POLYGONS"** is a bonafide work carried out by **MD WAJID ALI (3GN19CS045) , CHETAN ALMAJE (3GN19CS024), MIRZA MAAZ BAIG (3G19CS048), MOHD MAHROOF ALI (3GN19CS051)** in partial fulfillment of the requirements for the **Bachelor's degree in Computer Science and Engineering** of the **Visvesvaraya Technological University, Belagavi** during the academic year 2021-2022.

Signature of Guide
Prof. Masrath Begum

Signature of HOD
Prof. DAYANAND J

Examiner's Signatures:

1. 20/7/22
2. 20/7/22

PRINCIPAL
Guru Nanak Dev Engg. College, Bidar

ABSTRACT

Computer Graphics has grown into a very important topic in the branch of Computer Science. This is due to an effective and rapid communication formed between man and the machine. Human eye can absorb the information in a displayed diagram or perspective diagram much faster than it can scan a page or a table of contents.

This project " **FUN WITH POLYGONS** " demonstrates the creation of various polygons by giving the number of vertices as input. The user is also given the option to see the polygon from different views. OpenGL is used to make this possible by virtue of its various functionalities.

It can generate simple geometric figures like triangle, square, circle and various polygons by giving the number of sides from users input. Polygons like triangle, square, pentagon and so on can be generated with ease. We also include tilting and moving properties for the various polygons.

The code implemented makes use of various OpenGL functions for translation, rotation and keyboard callback function, built-in functions for solids and many more. The concepts of computer graphics stand a backbone to achieve the aforementioned idea. Primitive drawing, event driven interactions and basic animation have been the important concepts brought out by this application.

The report is chalked out into sections describing the basic requirements superseded by the briefing on functions used. Following this, the detailed description of how the implementation is done effectively using these functions and C language is presented. The source code is provided along with necessary comments to enhance readability of code. The screenshots have been provided for amelioration of our little effort. The conclusion and the future enhancements proposed conclude the report. The maximum efforts are been made to ensure that the view is aesthetically pleasing and eye-catchin

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE

This is to certify that the mini project work entitled "2D HELICOPTER" is a Bonafide work carried out by **NIMRA (3GN19CS061), ALI QUADRI (3GN19CS085), VIQUAR (3GN19CS087) & POOJA (3GN19CS066)** in partial fulfillment of the requirements for the Bachelor's degree in COMPUTER SCIENCE AND ENGINEERING of VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI during the year 2021-2022. It is certified that this Mini Project Report has been approved as it satisfies the academic requirements.

13/7/22

SIGNATURE OF GUIDE

SIGNATURE OF HOD

Head of Computer Science & Engineering Department, Guru Nanak Dev Engineering College BIDAR-585 403 (Karnataka)

NAME OF EXAMINAR

SIGN WITH DATE

1. _____ 21/7/22

2. _____ 21/7/22

PRINCIPAL
Guru Nanak Dev Engg. College, Bidar

ABSTRACT

A 2d graphics based game helicopter is a great start for a student who starts learning computer graphics & visualization. The development of the game has large scope to learn computer graphics from scratch. We used OpenGL utility toolkit to implement the algorithm, written it in c++ language.

There is still scope left in the development of project like, after"game over" a list should show top ten scorers, a need to embed a button "play again". Welcome screen need more modification there is scope of embedding buttons like "about", "how to play", "configuration", "profiles", etc. In future we hope we would implement it in source code for better experience of playing this game.

Finally, we could say by developing the game we have learnt the basics of f computer graphics and in future by developing it further we shall learn more. It will be our pleasure if we could develop in 3d graphics package.

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Guru Nanak Dev Engg. College, Bidar

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE

Certified that the computer graphics project titled ***PACMAN*** *carried out by Mr.* ***Darshan Rampure (USN:3GN19CS123), Mr. Trayoudh PATIL(USN:3GN19CS110), Mr. rohan (USN: 3GN19CS078) RAM KUMAR(USN:3GN19CS076)*** *in partial fulfilment for the award of Bachelor of Technology in* ***COMPUTER SCIENCE AND ENGINEERING*** *of Guru nanak dev engineering college, during the year 2021-22. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The computer graphics project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.*

ASHWINIDr. DAYANAND J

12/7/22

Signature of the Guide *Signature of the HOD*

Examiners

Name of the examiners	Signature with date
1	22/7/22
2	22/7/22

PRINCIPAL
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ABSTRACT

This project discusses about the popular Pacman game using java. I built a simple Pacman implementation with the maze, a Pac-man and Pac-dots for the Pac-man to eat. For this, I created a total of eight Pac-man images, one of which is displayed depending on direction with alternating open/closed mouth. The Pac-man moves around legal positions randomly and eats the Pac-dots. I added several ghosts. With checking to see if the game has ended (ghost catches Pacman or Pacman eats all of the dots) this second increment was completed. Although the most noticeable feature of the game is the graphics representation, the implementation involves multi-threading using synchronized methods and algorithms from Data Structures.

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CERTIFICATE

This is to certify that the project report entitled " **Restautrant Management System** " **Achari santosh** (3GN18CS002),Ambika (3GN18CS008),Md.Shaghill Amaan (3GN18CS047) ,Md.Sohail (3GN18CS061) in the partial fulfilment for the award of Bachelor of Engineering in **COMPUTER SCIENCE AND ENGINEERING** of the Visvesvaraya Technological University, Belagavi during the academic year

.....
Signature of Guide

.....
Signature of HOD

EXTERNAL VIVA

S.No	Name of the Examiner	Signature with Date
(1)	.....	.....
(2)	.....	.....

PRINCIPAL
Guru Nanak Dev Engg. College, Bidar

Abstract

The restaurant management software is a capstone project that aims towards developing an all-in-one application that addresses the various problems and challenges faced by high-end restaurant owners today . In order to achieve this goal, this project addresses various aspects of the modern business . It allows its users to access a variety of functionalities that are essential to the culinary business . Given that this project encapsulates more than one interface, it is by nature rich when it comes to the number of functionalities that are offered and these vary depending on the user's role. For example, it allows the waiter to take user orders through a straightforward, user-friendly, and smooth interface . All in all, this projects main aim is to reduce the time overhead in highend management restaurants by providing an alternative to the traditional management system based on physical record keeping and paper work.

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE

This is to certify that the project report entitled " **3D Bike Simulation** " **Wahed Ali** (3GN18CS062),Akshata Bhalke (3GN19CS007),Bhavana (3GN19CS019) ,Bhavani (3GN119CS021) in the partial fulfilment for the award of Bachelor of Engineering in **COMPUTER SCIENCE AND ENGINEERING** of the Visvesvaraya Technological University, Belagavi during the academic year

.....
Signature of Guide

.....
Signature of HOD

EXTERNAL VIVA

S.No	Name of the Examiner	Signature with Date
(1)	Ashwini M	.....
(2)	Rahul K	.....

PRINCIPAL
Guru Nanak Dev Engg. College, Bidar

ABSTRACT

This Project is on **"3D BIKE SIMULATION"** Computer Graphics using OpenGL Functions. It is a User interactive program where the User can view the required display by making use of the input devices like Keyboard and Mouse. This project mainly consists of a bike and a robot. The Robot is made to sit on the bike, so that it looks like a man riding it.The bike can be viewed in any direction and at any angle. The bike is accelerated and its movements are controlled using the keyboard. For viewing, we make use of the mouse. The bike is ridden on a polygonal surface, which looks like a giant rectangular mesh. Lighting has been incorporated on only one side-Viewer side.

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE

This is to certify that the project report entitled **" Working of a Satalilite " Divyashala** (3GN19CS025),Faiza M (3GN19CS026),Ganesh (3GN19CS027) ,Bhavani (3GN119CS021) in the partial fulfilment for the award of Bachelor of Engineering in **COMPUTER SCIENCE AND ENGINEERING** of the Visvesvaraya Technological University, Belagavi during the academic year

Signature of Guide **Signature of HOD**

EXTERNAL VIVA

S.No	Name of the Examiner	Signature with Date
(1)	Bhavani	
(2)	Ganesh. C	

PRINCIPAL
Guru Nanak Dev Engg. College, Bidar

ABSTRACT

Computer Graphics has grown into a very important topic in the branch of Computer Science. This is due to an effective and rapid communication formed between man and the machine. Human eye can absorb the information in a displayed diagram or perspective diagram much faster than it can scan a page or a table of contents.

Main aim of this Mini Project is to illustrate the concepts of working of a Satellite in OpenGL.

A **Satellite** is an object which has been placed into orbit by human endeavour. Such objects are sometimes called **Artificial Satellites** to distinguish them from natural satellites such as the Moon.

Satellites are used for a large number of purposes. Common types include military and civilian Earth observation satellites, communications satellites, navigation satellites, weather satellites, and research satellites.

This pushed the entire network into a 'congestion collapse' where most packets were lost and the resultant throughput was negligible.

We have used input devices like mouse and key board to interact with program.

We have also used Solid Cube for forming a complete network setup which help to understand concept of Congestion Control very well.

To differentiate between objects we have used different colours for different objects.

We have added menu which makes the program more interactive.

In this project we have used a small Solid Cube to represent a data, which travels as data transfer from source to destination.

We have used font family for indicating the name of objects as we can see in this project.

PRINCIPAL
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VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI
GURU NANAK DEV ENGINEERING COLLEGE
BIDAR-585401, KARNATAKA

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE

This is to certify that the project report entitled **" 3D CAR Simulation"** **" Jasmeet Singh"** (3GN19CS032), Makrand (3GN19CS036), Masroor Fatima(3GN19CS038) , Md. Shakeel Ahmed (3GN19CS043) in the partial fulfilment for the award of Bachelor of Engineering in **COMPUTER SCIENCE AND ENGINEERING** of the Visvesvaraya Technological University, Belagavi during the academic year

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Signature of Guide

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Signature of HOD

EXTERNAL VIVA

S.No	Name of the Examiner	Signature with Date
(1)	.....	.....
(2)	.....	.....

PRINCIPAL
Guru Nanak Dev Engg. College, Bidar

ABSTRACT

3D computer graphics or three-dimensional computer graphics (in contrast with 2D computer graphics) are graphics that use a three dimensional representation of geometric data that is stored in the computer for the purposes of performing calculations and rendering 2D images. Such images may be stored for viewing later or displayed in real time.

3D computer graphics rely on many of the same algorithms as 2D computer vector graphics in the wire frame model and 2D computer raster graphics in the final rendered display. In computer graphics software, 2D applications may use 3D techniques to achieve effects such as lighting, and 3D may use 2D rendering techniques.

3D computer graphics are often referred to as 3D models. Apart from the rendered graphic, the model is contained within the graphical data file. However, there are differences: a 3D model is mathematical representation of any three-dimensional object. A model is not technically a graphic until it is displayed. A model can be displayed visually as a two-dimensional image through a process called 3D rendering or used in non-graphical computer simulations and calculations. With 3D printing, 3D models are similarly rendered into a 3D physical representation of the model, with limitations to how accurate the rendering can match the virtual model.

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BIDAR-585401, KARNATAKA

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE

This is to certify that the project report entitled **" CATCH ME IF YOU CAN" " Megha Maktedar"** (3GN19CS046), Nabi Saab (3GN19CS053), Nagma Shaheen (3GN19CS056) , Najma Begum (3GN19CS057) in the partial fulfilment for the award of Bachelor of Engineering in **COMPUTER SCIENCE AND ENGINEERING** of the Visvesvaraya Technological University, Belagavi during the academic year

.....
Signature of Guide

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Signature of HOD

EXTERNAL VIVA

S.No	Name of the Examiner	Signature with Date
(1)	Bhavana	Bhav .....
(2)	Suresh. C	.....

PRINCIPAL
Guru Nanak Dev Engg. College, Bidar

ABSTRACT

"Catch Me if you can" game involves a block that keeps changing its position relatively and the user is supposed to catch it. Graphics provides one of the most natural means of communicating with a computer ,since our highly developed 2D Or 3D pattern-recognition abilities allow us to perceive and process pictorial data rapidly. OpenGL fosters innovation and speeds application development by incorporating a broad set of rendering, texture mapping, special effects, and other powerful visualisation functions. Developers can leverage the power of OpenGL across all popular desktop and workstation platforms, ensuring wide application deployment. The project is created to demonstrate OpenGL's concepts. It encompasses some of the skills learnt in our OpenGL classes.

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BIDAR-585401, KARNATAKA

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE

This is to certify that the project report entitled **" 2D Helicopter"** **" Naziya Saher"** (3GN19CS058), Shabnam Fatima (3GN19CS084), Soumya (3GN19CS101) , Pallavi (3GN19CS062) in the partial fulfilment for the award of Bachelor of Engineering in **COMPUTER SCIENCE AND ENGINEERING** of the Visvesvaraya Technological University, Belagavi during the academic year

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Signature of Guide

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Signature of HOD

EXTERNAL VIVA

S.No	Name of the Examiner	Signature with Date
(1)	Ashwini M	
(2)	Bharang B	

PRINCIPAL
Guru Nanak Dev Engg. College, Bidar

ABSTRACT

A 2d graphics based game helicopter is a great start for a student who starts learning computer graphics & visualization. The development of the game has large scope to learn computer graphics from scratch. We used OpenGL utility toolkit to implement the algorithm, written it in c++ language.

There is still scope left in the development of project like, after"game over" a list should show top ten scorers, a need to embed a button "play again". Welcome screen need more modification there is scope of embedding buttons like "about", "how to play", "configuration", "profiles", etc. In future we hope we would implement it in source code for better experience of playing this game.

Finally, we could say by developing the game we have learnt the basics of f computer graphics and in future by developing it further we shall learn more. It will be our pleasure if we could develop in 3d graphics package.

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BIDAR-585401, KARNATAKA

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE

This is to certify that the project report entitled **" WORKING OF A SATELLITE" " Syed Junaid Ahmed"** (3GN18CS110), Revanasiddesh S (3GN18CS074), Shweta Gare (3GN18CS101) , Sneha (3GN18CS104) in the partial fulfilment for the award of Bachelor of Engineering in **COMPUTER SCIENCE AND ENGINEERING** of the Visvesvaraya Technological University, Belagavi during the academic year

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Signature of Guide

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Signature of HOD

EXTERNAL VIVA

S.No	Name of the Examiner	Signature with Date
(1)	.....	.....
(2)	.....	.....

PRINCIPAL
Guru Nanak Dev Engg. College, Bidar

ABSTRACT

Computer Graphics has grown into a very important topic in the branch of Computer Science. This is due to an effective and rapid communication formed between man and the machine. Human eye can absorb the information in a displayed diagram or perspective diagram much faster than it can scan a page or a table of contents.

Main aim of this Mini Project is to illustrate the concepts of working of a Satellite in OpenGL.

A **Satellite** is an object which has been placed into orbit by human endeavour. Such objects are sometimes called **Artificial Satellites** to distinguish them from natural satellites such as the Moon.

Satellites are used for a large number of purposes. Common types include military and civilian Earth observation satellites, communications satellites, navigation satellites, weather satellites, and research satellites.

This pushed the entire network into a 'congestion collapse' where most packets were lost and the resultant throughput was negligible.

We have used input devices like mouse and key board to interact with program.

We have also used Solid Cube for forming a complete network setup which help to understand concept of Congestion Control very well.

To differentiate between objects we have used different colours for different objects.

We have added menu which makes the program more interactive.

In this project we have used a small Solid Cube to represent a data, which travels as data transfer from source to destination.

We have used font family for indicating the name of objects as we can see in this project.

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE

This is to certify that the project report entitled **" WIRELESS MOBILE COMMUNICATION" " Pavan"** (3GN19CS063), Pavan Kumar (3GN19CS064), Pooja (3GN19CS065) , Pooja Andoor (3GN19CS067) in the partial fulfilment for the award of Bachelor of Engineering in **COMPUTER SCIENCE AND ENGINEERING** of the Visvesvaraya Technological University, Belagavi during the academic year

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Signature of Guide

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Signature of HOD

EXTERNAL VIVA

S.No	Name of the Examiner	Signature with Date
(1)	.....	.....
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ABSTRACT

The main aim of this project is to develop a suitable graphic package using OpenGL. The scope of this mini-project includes various built in functions of OpenGL and user defined functions. These functions are implemented in the design of this mini-project. This mini-project "WIRELESS MOBILE COMMUNICATION" is an interactive graphic created using OpenGL programming toolkit.

The project shows simple application of computer graphics in consecutive transformation like rotation, scaling and translation of objects using OpenGL platform. The function code uses inbuilt functions which are defined in the GLUT (OpenGL utility toolkit) library.

The computer based model calls keyboard functions to make the model move according to the functions specified, and works according to the keys pressed by the user. Here some of the keys are used to build communication links between the managed devices in the mobile communication device.

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE

This is to certify that the project report entitled **" Apartment Visitors Management System"** **" Prarthana Thore"** (3GN19CS068), Priya (3GN19CS071), Punit (3GN19CS074) , Rajkumar (3GN19CS075) in the partial fulfilment for the award of Bachelor of Engineering in **COMPUTER SCIENCE AND ENGINEERING** of the Visvesvaraya Technological University, Belagavi during the academic year

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EXTERNAL VIVA

S.No	Name of the Examiner	Signature with Date
(1)	.....	.....
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Guru Nanak Dev Engg. College, Bidar

APARTMENT VISITORS MANAGEMENT SYSTEM

ABSTRACTION

THE MAIN OBJECTIVE OF THIS PROJECT IS TO ENHANCE THE SAFETY FOR PEOPLE IN THEIR LIVINGS. IN TODAY'S GENERATION, FACE RECOGNITION IS AN IMPORTANT PART FOR THE PURPOSE OF SAFETY, SURVEILLANCE AND SECURITY. THEREFORE WE NEED FOR AN EFFICIENT AND COST EFFECTIVE SYSTEM. INSTEAD APARTMENT VISITOR'S MANAGEMENT SYSTEM WILL ASSIST YOU THE PROFESSIONLIZED WAY IN WHICH YOU WELCOME YOUR VISITORS.THIS SOFTWARE IS IMPROVE THE PRODUCTIVITY AND SECURE FROM THE UNAUTHORIZIED OR UNWANTED VISITORS.

INTRODUCTION

THE APARTMENT VISITORS MANAGEMENT SYSTEM FOR KEEPING THE RECORDS OF VISITOR.ALSO IT DISPLAYS ALL THE VISITORS ENTRY AND OUTGOING RECORDS.THE MAIN OBJECTIVE OF THE PROJECT IS EASILY SEARCH VISITOR THROUGH HIS/HER NAME OR PHONE NUMBER. YOU CAN GET THE HOURS HE/SHE SPENT A PERTICULAR DAY THROUGH THIS SYSTEM.

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BIDAR-585401, KARNATAKA

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE

This is to certify that the project report entitled **" CATCH ME IF YOU CAN" " Sai Kiran"** (3GN19CS079), Sana Banu (3GN19CS080), Shah Kamran (3GN19CS086) , Shazeeb Talha (3GN19CS091) in the partial fulfilment for the award of Bachelor of Engineering in **COMPUTER SCIENCE AND ENGINEERING** of the Visvesvaraya Technological University, Belagavi during the academic year

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Signature of HOD

EXTERNAL VIVA

S.No	Name of the Examiner	Signature with Date
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PRINCIPAL
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ABSTRACT

"Catch Me if you can" game involves a block that keeps changing its position relatively and the user is supposed to catch it. Graphics provides one of the most natural means of communicating with a computer ,since our highly developed 2D Or 3D pattern-recognition abilities allow us to perceive and process pictorial data rapidly. OpenGL fosters innovation and speeds application development by incorporating a broad set of rendering, texture mapping, special effects, and other powerful visualisation functions. Developers can leverage the power of OpenGL across all popular desktop and workstation platforms, ensuring wide application deployment. The project is created to demonstrate OpenGL's concepts. It encompasses some of the skills learnt in our OpenGL classes.

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE

This is to certify that the project report entitled " **APARTMENT VISITORs MANAGEMENT SYSYTEM**" " **Shivani M**" (3GN19CS093), Shivshanth (3GN19CS094), Shradha (3GN19CS095) , Shreya Mahajan (3GN19CS096) in the partial fulfilment for the award of Bachelor of Engineering in **COMPUTER SCIENCE AND ENGINEERING** of the Visvesvaraya Technological University, Belagavi during the academic year

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Signature of HOD

EXTERNAL VIVA

S.No	Name of the Examiner	Signature with Date
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Guru Nanak Dev Engg. College, Bidar

APARTMENT VISITORS MANAGEMENT SYSTEM

ABSTRACTION

THE MAIN OBJECTIVE OF THIS PROJECT IS TO ENHANCE THE SAFETY FOR PEOPLE IN THEIR LIVINGS. IN TODAY'S GENERATION, FACE RECOGNITION IS AN IMPORTANT PART FOR THE PURPOSE OF SAFETY, SURVEILLANCE AND SECURITY. THEREFORE WE NEED FOR AN EFFICIENT AND COST EFFECTIVE SYSTEM. INSTEAD APARTMENT VISITOR'S MANAGEMENT SYSTEM WILL ASSIST YOU THE PROFESSIONLIZED WAY IN WHICH YOU WELCOME YOUR VISITORS.THIS SOFTWARE IS IMPROVE THE PRODUCTIVITY AND SECURE FROM THE UNAUTHORIZIED OR UNWANTED VISITORS.

INTRODUCTION

THE APARTMENT VISITORS MANAGEMENT SYSTEM FOR KEEPING THE RECORDS OF VISITOR.ALSO IT DISPLAYS ALL THE VISITORS ENTRY AND OUTGOING RECORDS.THE MAIN OBJECTIVE OF THE PROJECT IS EASILY SEARCH VISITOR THROUGH HIS/HER NAME OR PHONE NUMBER. YOU CAN GET THE HOURS HE/SHE SPENT A PERTICULAR DAY THROUGH THIS SYSTEM.

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BIDAR-585401, KARNATAKA

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE

This is to certify that the project report entitled **" WIRELESS MOBILE COMMUNICATION" " Shweta"** (3GN19CS097), Supriya Rao (3GN19CS102), Swati (3GN19CS105) , Ubaid Kashif (3GN19CS096), Vaishnavi K (3GN19CS115), Vijaylaxmi bai (3GN19CS118) in the partial fulfilment for the award of Bachelor of Engineering in **COMPUTER SCIENCE AND ENGINEERING** of the Visvesvaraya Technological University, Belagavi during the academic year

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Signature of Guide

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Signature of HOD

EXTERNAL VIVA

S.No	Name of the Examiner	Signature with Date
(1)	Rajshekar. G	.....
(2)	Suresh. C	.....

PRINCIPAL
Guru Nanak Dev Engg. College, Bidar

ABSTRACT

The main aim of this project is to develop a suitable graphic package using OpenGL. The scope of this mini-project includes various built in functions of OpenGL and user defined functions. These functions are implemented in the design of this mini-project. This mini-project "WIRELESS MOBILE COMMUNICATION" is an interactive graphic created using OpenGL programming toolkit.

The project shows simple application of computer graphics in consecutive transformation like rotation, scaling and translation of objects using OpenGL platform. The function code uses inbuilt functions which are defined in the GLUT (OpenGL utility toolkit) library.

The computer based model calls keyboard functions to make the model move according to the functions specified, and works according to the keys pressed by the user. Here some of the keys are used to build communication links between the managed devices in the mobile communication device.

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BIDAR-585403, KARNATAKA

GURU NANAK DEV ENGINEERING COLLEGE,

DEPARTMENT OF COMPUTER SCIENCE ANDENGINEERING

CERTIFICATE

This is to certify that the mini project work entitled **"CRIMINALS REGISTRATION SYSTEM FOR POLICE DEPARTMENT"** is a bonafide work carried out by **KALYAN KUMAR(3GN18CS039)** in the partial fulfillment of the requirements for the **Bachelor's degree in Computer Science and Engineering of the Vishvesvaraya Technological University, Belagavi during the academic year 2021-2022.**

21/1/2022

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Signature of Guide
Prof. Ashwini Mankal

.....

Signature of H.O.D
Prof. Dr Dayanand J

EXTERNAL VIVA:

Examiners: 1) ..... 2) .....

PRINCIPAL
Guru Nanak Dev Engg. College, Bidar

ABSTRACT

The "Crime Management System" is a web based application for online complaining and computerized management of crime records. Here in this website a person who wishes to file a complaint or report an incident must register before log in and once the admin authenticates the user he or she can login into the website and file a complaint .This complaint will be received by police and police can send a message regarding status of the complaint to the user who filed the complaint. Police can use this software to manage different crimes and some of the works which is done in police station manually. Police gets their login password from admin directly. Some of the modules like unidentified dead bodies, missing persons, and most wanted criminals can be viewed through the website without logging in. So this website helps police to find out the problems in the society without them actually coming to the police station. Key Words: FIR-First Information Report

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BIDAR-585403, KARNATAKA

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE

This is to certify that the mini project work entitled **"COLLEGE MANAGEMENT SYSTEM"** is a bonafied work carried out by **AMBIKA** (3GN18CS012)in partial fulfilment of the requirements for the Bachelor's degree in COMPUTER SCIENCE AND ENGINEERING of VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI during the year 2021-2022. It is certified that this **Mini Project** Report has been approved as it satisfies the academic requirements.

21/1/2022

SIGNATURE OF GUIDE **SIGNATURE OF EXTERNAL** **SIGNATURE OF HOD**

Head of Computer Science & Engineering Department, Guru Nanak Dev Engineering College BIDAR-585 403 (Karnataka)

PRINCIPAL
Guru Nanak Dev Engg. College, Bidar

ABSTRACT

College Management System deals with all kind of student details, academic related reports, college details, course details, curriculum, batch details and other resource related details too. It tracks all the details of a student from the day one to the end of his course which can be used for all reporting purpose, tracking of attendance, progress in the course, completed semesters years, coming semester year curriculum details, exam details, project or any other assignment details, final exam result; and all these will be available for future references too.Our program will have the databases of Courses offered by the college under all levels of graduation or main streams, teacher or faculty's details, batch execution details, students' details in all aspects.This program can facilitate us explore all the activities happening in the college, even we can get to know which teacher / faculty is assigned to which batch, the current status of a batch, attendance percentage of a batch and upcoming requirements of a batch. Different reports and Queries can be generated based of vast options related to students, batch, course, teacher / faculty, exams, semesters, certification and even for the entire college.

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

BIDAR-585403

Certificate

Certified that the Mini Project Work Project Work entitled"DAILY BUDGET & EXPENSE MANAGEMENT SYSTEM"carriedout by M AKASH KUMAR (3GN18CS047) Bonafide students of "GURU NANAK DEV ENGINEERING COLLEGE"in partial fulfilment for the 5TH SEM of Bachelor ofEngineering degree in CSE ofVisvesvaraya Technological University, Belagavi during theacademic year 2021-2022. It is certified that all corrections/suggestions indicated for InternalAssessment have been incorporated in the report deposited in the department library. The projectreport has been approved as it satisfies the academic requirements in respect of DBMS Laboratorywith Mini Project(18CSL58) prescribed for the said Degree.

Signature of guide
Prof. ASHWINI MANKAL

Signature of HOD
Dr. DAYANAND J

EXTERNAL EXAMINATION

Name of the Examiners

Signature with date

1.

2. 31/3/22

PRINCIPAL
Guru Nanak Dev Engg. College, Bidar

ABSTRACT

Personal Expense Tracker (PET) is a daily expense management system which is specially designed for non- salaried and salaried personnel for keeping track of their daily expenditure with easy and effective way through computerized system which tends to eliminate manual paper works. It will also manage records in systematic way and user can access the stored data conveniently.

We have tried to design the project in such way that user may not have any difficulty in using this application without much effort. This software can be really used by end user who have Android running devices with them. The language that we use to develop this system is Java and SQLite for database.

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GURUNANAKDEVENGINEERINGCOLLEGE,

BIDAR-585403,KARNATAKA

DEPARTMENTOFCOMPUTERSCIENCEANDENGINEERING

CERTIFICATE

Thisistocertify thattheminiproject work entitled**"TAJ MAHAL ANIMATION"**isabonafideworkcarriedoutby , **MD NOUMAN ALI KHAN(3GN19CS041)** in partial fulfillment ofthe requirements for theBachelor'sdegreeinComputerScienceandEngineeringofthe **Visvesvaraya Technological University, Belagavi** during theacademicyear 2021-2022.

SignatureofGuide
Prof.Masrath Begum

Signature of HOD
Prof.DAYANANDJ

Examiner'sSignatures:

1. 20/7/22
2. 22/7/22

PRINCIPAL
Guru Nanak Dev Engg. College, Bidar

ABSTRACT

Computer Graphics has grown into a very important topic in the branch of ComputerScience. This is due to an effective and rapid communication formed between man and themachine. Human eye can absorb the information in a displayed diagram or perspective diagrammuch fasterthan it can scan apageor atableof contents.

This project " **TAJ MAHAL ANIMATION** " demonstrates the creation of variouspolygons by giving the number of vertices as input. The user is also given the option to see thepolygon from different views. OpenGL is used to make this possible by virtue of its variousfunctionalities.

Wecangeneratesimplegeometricfigureslikетriangle,square,circleandvariouspolygonsbygivingthenumberofsidesfromusersinput.Polygonsliketriangle,square,pentagonandsooncanbegeneratedwithease.Wealsoincludetiltingandmovingpropertiesforthevariouspolygons.

The code implemented makes use of various OpenGL functions for translation, rotationand keyboard callback function, built-in functions for solids and many more. The concepts ofcomputergraphicsstandabackbonetoachievetheaforementionedidea.Primitivedrawing,eventdriven interactions and basic animation have been the important concepts brought out by thisapplication.

Thereportischalkedoutintosectionsdescribingthebasicrequirementssuperseded bythebriefing on functions used. Following this, the detailed description of how the implementation isdone effectively using these functions and C language is presented. The source code is providedalong with necessary commentsto enhance readability of code. The screenshots have beenprovidedforamelioration ofourlittleeffort.

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CERTIFICATE

This is to certify that the mini project work entitled " HELICOPTER GAME" is a bonafide work carried out by **GURPREET SINGH (3GN19CS029)** in partial fulfillment of the requirements for the **Bachelor's degree in Computer Science and Engineering of the Visvesvaraya Technological University, Belagavi** during the academic year 2021-2022.

Signature of Guide
Prof. MASARATH BEGUM

Signature of HOD
Prof. DAYANAND J

Examiner's Signatures:

1.

2.

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ABSTRACT

A 2D graphics based game helicopter is a great start for a student who starts learning computer graphics & visualization. The development of the game has large scope to learn computer graphics from scratch. We used OpenGL utility toolkit to implement the algorithm, written it in c++ language.

There is still scope left in the development of project like, after "game over" a list should show top ten scorers, a need to embed a button "play again". Welcome screen need more modification there is scope of embedding buttons like "about", "how to play", "configuration", "profiles", etc. In future we hope we would implement it in source code for better experience of playing this game.

Finally, we could say by developing the game we have learnt the basics of f computer graphics and in future by developing it further we shall learn more. It will be our pleasure if we could develop in 3d graphics package.

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BIDAR-585403, KARNATAKA

GURU NANAK DEV ENGINEERING COLLEGE,

DEPARTMENT OF COMPUTER SCIENCE ANDENGINEERING

CERTIFICATE

This is to certify that the mini project work entitled **"CRIMINALS REGISTRATION SYSTEM FOR POLICE DEPARTMENT"** is a bonafide work carried out by **ANKUSH KANJIKAR (3GN19CS014)** in the partial fulfillment of the requirements for the **Bachelor' s degree in** Computer Science and Engineering of the Vishvesvaraya Technological University, Belagavi during the academic year 2021-2022.

21/01/2022

Signature of Guide
Prof. Ashwini Mankal

Signature of H.O.D
Prof. Dr Dayanand J

EXTERNAL VIVA:

Examiners: 1) ..... 2) .....

PRINCIPAL
Guru Nanak Dev Engg. College, Bidar

ABSTRACT

The "Crime Management System" is a web based application for online complaining and computerized management of crime records. Here in this website a person who wishes to file a complaint or report an incident must register before log in and once the admin authenticates the user he or she can login into the website and file a complaint .This complaint will be received by police and police can send a message regarding status of the complaint to the user who filed the complaint. Police can use this software to manage different crimes and some of the works which is done in police station manually. Police gets their login password from admin directly. Some of the modules like unidentified dead bodies, missing persons, and most wanted criminals can be viewed through the website without logging in. So this website helps police to find out the problems in the society without them actually coming to the police station. Key Words: FIR-First Information Report

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GURU NANAK DEV ENGINEERING COLLEGE, BIDAR-585403, KARNATAKA

DEPT. OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE

This is to certify that the mini project work entitled **"TOURISM MANAGEMENT SYSTEM"** is a bonafide work carried out by ANAMIKA (3GN19CS012) in partial fulfillment of the requirements for the award B.E in computer science and engineering by visvesvaraya technological university, belagavi during academic year 2021-2022. It is certified that the mini project report has been approved as it satisfies the academic requirements in respect of the mini project work prescribed for B.E.

21/11/2022

Signature of guide

Prof. ASHWINI MANKAL

Signature of HOD

Dr. DAYANAND
Head of Computer Science & Engineering Department,
Guru Nanak Dev Engineering College,
BIDAR-585 403 (Karnataka)

EXAMINER 1:

EXAMINER 2:

PRINCIPAL
Guru Nanak Dev Engg. College, Bidar

ABSTARCT

As the name specific **"TOURISM MANAGEMENT SYSTEM"** is a software developed for managing tour booking. Identification of the drawback of the existing system leads to the designing of the computerized system that will be compatible to the existing system with the system which is more user friendly and more GUI oriented.

We can improve the efficiency of the system, thus overcome the drawbacks of the existing system. Less human error. Strength and strain of manual labor can be reduced.

High Security, Data Redundancy can be avoided to some extent. Data consistency, Easy to handle, Easy data updating, Easy record keeping, Backup data can be easy generated.

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BELAGAVI

BIDAR-585403, KARNATAKA

GURU NANAK DEV ENGINEERING COLLEGE,

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE

This is to certify that the mini project work entitled **"ZOO MANAGEMENT SYSTEM"** is a bonafide work carried out by **ANJALI JAINAPURE(3GN19CS013)** in the partial fulfillment of the requirements for the **Bachelor's degree in Computer Science and Engineering** of the **Vishvesvaraya Technological University, Belagavi** during the academic year 2021-2022.

21/1/2022

.....

SignatureofGuide
H.O.DProf.ASHWINI MANKAL

.....

Signature of
Prof.D

EXTERNAL VIVA:

Examiners: 1) ..... 2).... .....

PRINCIPAL
Guru Nanak Dev Engg. College, Bidar

ABSTRACT

Our project "ZOO MANAGEMENT SYSTEM" is related to online application of Zoo Management.Zoo Management system is a solution for the effective management of the tickets and to maintain the data of all the visitors.There is a admin login through which the details of all the customers can be added into the database.The front page displays all the animals and their cage numbers which they are present in.The contact information of both the admins is available so that the visitor can interact with the admin if there's any problem regarding the tickets and the zoo animals. Managing a zoo requires balancing the provision of excellent animal management and care with an optimal visitor experience and quality customer service.In addition to standard business management practices, zoos also need to consider the extra element of collection planning. Institutional collection plan" is used to decide on which species are kept at the zoo. Animal welfare: Of course, a decent zoo meets animals' basic needs: appropriate food, fresh water, proper exposure to light. Animals have enclosures that are clean, roomy enough—for flying or running, swimming or climbing—and include features that mimic conditions in the wild.ZIMS was developed as a secured database related to visitors' entry tickets, to keep and maintain the animals' details (birth, death & updates) without manual effort and to store papers. Reducing usage of papers helps to keep green environment.

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2021-22

GURU NANAK DEV ENGINEERING COLLEGE

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

BIDAR-585403

Certificate

Certified that the Mini Project Work Project Work entitled "FARM MANAGEMENT SYSTEM" carried out by SYED JUNAID AMED 3GN18CS110 Bonafide student of "GURU NANAK DEV ENGINEERING COLLEGE" in partial fulfilment for the 5TH SEM of Bachelor of Engineering degree in CSE of Visvesvaraya Technological University, Belagavi during the academic year 2021-2022. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The project report has been approved as it satisfies the academic requirements in respect of DBMS Laboratory with Mini Project(18CSL58) prescribed for the said Degree.

Signature of guide
Prof. SURESH CHIMKODE

Signature of HOD
Dr. DAYANAND J

EXTERNAL EXAMINATION

Name of the Examiners

2.

Signature with date 1.

2

PRINCIPAL
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ABSTRACT

The agro marketing strategic vision and effectiveness can be achieved with electronic commerce-related concepts , guidelines and tools are applied as directed by a thorough and systematic approach. The site helps the farmers to sell their perishable agricultural product online and suggests best-in-practice farming processes. It providing a wider market and helping them to not restrict themselves to the local market . it helps the wholesalers and retailers in buying produce from a large number of farmers. It enables wholesalers and retailers in expanding their business. It features online shopping for farming commodities fertilizers, pesticides, machinery & tools, etc. It helps the farmers to keep track of their production with features such as virtual calendar, forecasting, etc. and enables them to hire labourers to find small jobs by having a work profile in the website. The aim is to automate its existing manual system by the help of computerized equipment and full-fledged computer sofiware, fluffing their requirements, so that their valuable data/information can be stored for a longer period with easy accessing and manipulation of the same. Basically the project describes how to manage for good performance and better services for the clients.

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GURU NANAK DEV ENGINEERING COLLEGE, BIDAR-585403, KARNATAKA

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE

This is certified that the mini project work entitled "COURIER MANAGEMENT SYSTEM" is a bonafide work carried out by Aleena(3GN19CS008) in partial fulfillment of the requirements for the award of B.E in computer science and Engineering by the Visvesvaraya Technological University, Belgavi during academic year 2021-2022. It is cerified that the mini project has been approved as it satisfies the academic requirements in respect of the mini project work prescribed for the B.E.

Signature of Guide
Prof.ASHWINI MANKAL

Signature of HOD
Dr. DAYANAND J
Head of Computer Science & Engineering Department,
Guru Nanak Dev Engineering College
BIDAR-585 403 (Karnataka)

NAME OF EXAMINERS

21/1/2022

SIGNATURE WITH DATE

PRINCIPAL
Guru Nanak Dev Engg. College, Bidar

ABSTRACT

The objective of this courier management system is to reduce the day to day work hectic by automating all the manual work of courier related organizations into computer based work. Courier management system aims at keeping the track of employee information, apart from this details about day to day courier senders, receivers, courier men, hub details and prices and products which are sending using courier services. Also it keeps the track of all the companies that uses courier services daily or most frequently in order to give them special discount so that they can use their services daily.

All the database with a backup is being stored into the server of the system. This reduce the man power and increase the efficiency of the work demands.

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BIDAR-585403, KARNATAKA

GURU NANAK DEV ENGINEERING COLLEGE,

DEPARTMENT OF COMPUTER SCIENCE ANDENGINEERING

CERTIFICATE

This is to certify that the mini project work entitled **"CRIMINALS REGISTRATION SYSTEM FOR POLICE DEPARTMENT"** is a bonafide work carried out by **AMISH BEMELKHEDKAR (3GN19CS010)** in the partial fulfillment of the requirements for the **Bachelor's degree** in Computer Science and Engineering of the **Visionariness Technological University, Belagavi** during the academic year2021-2022.

21/7/22

Signature of Guide
Prof. Ashwini Mankal

Signature of H.O.D
Prof. Dr Dayanand J

Head of Computer Science & Engineering Department,
Guru Nanak Dev Engineering College,
BIDAR-585 403 (Karnataka)

EXTERNAL VIVA:

_Examiners: 1) ..... 2) .....

PRINCIPAL
Guru Nanak Dev Engg. College, Bidar

ABSTRACT

The "Crime Management System" is a web based application for online complaining and computerized management of crime records. Here in this website a person who wishes to file a complaint or report an incident must register before log in and once the admin authenticates the user he or she can login into the website and file a complaint .This complaint will be received by police and police can send a message regarding status of the complaint to the user who filed the complaint. Police can use this software to manage different crimes and some of the works which is done in police station manually. Police gets their login password from admin directly. Some of the modules like unidentified dead bodies, missing persons, and most wanted criminals can be viewed through the website without logging in. So this website helps police to find out the problems in the society without them actually coming to the police station. Key Words: FIR-First Information Report

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BIDAR-585403

Certificate

Certified that the Mini Project Work Project Work entitled "ELECTRICITY BILL MANAGEMENT SYSTEM" carried out by NAGESH (3GN19CS054) Bona fide students of "GURU NANAK DEV ENGINEERING COLLEGE" in partial fulfilment for the 5TH SEM of Bachelor of Engineering degree in CSE of Visvesvaraya Technological University, Belagavi during the academic year 2021-2022. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The project report has been approved as it satisfies the academic requirements in respect of DBMS Laboratory with Mini Project(18CSL58) prescribed for the said Degree.

21/11/2022

Signature of guide
Prof. ASHWINI MANKAL

Signature of HOD
Dr. DAYANAND

EXTERNAL EXAMINATION

Name of the Examiners	Signature with date
1.	
2.	26/3/22

PRINCIPAL
Guru Nanak Dev Engg. College, Bidar

ABSTRACT

"Electric bill Management System" is designed to make the existing manual system automatic with the help of computerized equipment and full-edged computer software, fulfilling their requirements, so that their valuable data and information can be stored for a [illegible] and manipulation of the same. The required software is [illegible] can maintain and view

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BIDAR-585403, KARNATAKA

GURU NANAK DEV ENGINEERING COLLEGE,

DEPARTMENT OF COMPUTER SCIENCE ANDENGINEERING

CERTIFICATE

This is to certify that the mini project work entitled **"CRIMINALS REGISTRATION SYSTEM FOR POLICE DEPARTMENT"** is a bonafide work carried out by **ARUN PATIL(3GN19CS015)** in the partial fulfillment of the requirements for the **Bachelor's degree** in Computer Science and Engineering of the **Vishvesvaraya Technological University, Belagavi** during the academic year 2021-2022.

21/1/2022

.....

Signature of Guide
Prof. Ashwini Mankal

.....

Signature of H.O.D
Prof. Dr Dayanand J

Head of Computer Science & Engineering Department, Guru Nanak Dev Engineering College BIDAR-585 403 (Karnataka)

EXTERNAL VIVA:

Examiners: 1) ..... 2) .....

PRINCIPAL
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ABSTRACT

The "Crime Management System" is a web based application for online complaining and computerized management of crime records. Here in this website a person who wishes to file a complaint or report an incident must register before log in and once the admin authenticates the user he or she can login into the website and file a complaint .This complaint will be received by police and police can send a message regarding status of the complaint to the user who filed the complaint. Police can use this software to manage different crimes and some of the works which is done in police station manually. Police gets their login password from admin directly. Some of the modules like unidentified dead bodies, missing persons, and most wanted criminals can be viewed through the website without logging in. So this website helps police to find out the problems in the society without them actually coming to the police station. Key Words: FIR-First Information Report

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DEPT. OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE

This is to certify that the mini project work entitled " RUBIK'S CUBE Game" is a bonafide work carried out by **MD SHOIEB ALI (3GN19CS044)** in partial fulfillment of the requirements for the **Bachelor's degree** in **Computer Science and Engineering** of the **Visvesvaraya Technological University, Belagavi** during the academic year 2021-2022.

Signature of Guide
Prof. MASARATH BEGUM

Signature of HOD
Prof. DAYANAND J

Examiner's Signatures:

1. 20/7/22
2. 20/7/22

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Guru Nanak Dev Engg. College, Bidar

ABSTRACT

In this mini project we are going to see, a complex opengl project to show and solve the puzzle of Rubik's Cube in OpenGL C++.

The cubies are divided into three different types:

Centre Cubies:
The center cubies refer to the cubie pieces that are located at the center of each face of the Rubik's cube. There is a total of six cubies, and each has one face let, they always stick in the same location corresponding to each other.

Corner Cubies:
The corner cubies refer to the cubic pieces that are located at the corner of the Rubik's cube. There is a total of eight corners, and each has three face lets.

Edge Cubies:
The edge cubies refer to the edge pieces that are located between each pair of the corresponding corners. There are 12 different edges in the Rubik's cube, and each has two Face lets.

All cubes do not have the same color arrangements. The colors utilized for these illustrations is known as BOY (Blue, Orange, and Yellow, are faced in the clockwise direction). Here, you need to analyze the locations of the centers corresponding to each other, as this is always your color arrangements.

White is located opposite to yellow.

Blue is located opposite to green.

Orange is located opposite red.

Orange is also located to the right of blue only if white is facing up

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GURU NANAK DEV ENGINEERING COLLEGE

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE

This is to certify that the mini project work entitled **"Solar System"** is a bonafide work carried out by **VILAS BIRADAR (3GN19CS119), VINAY(3GN19CS120), VINAYKUMAR.S.JABNOR (3GN19CS121)**, in the partial fulfillment of the requirements for the **Bachelor's degree** in Computer Science and Engineering of the Visvesvaraya Technological University, Belagavi during the academic year 2021-2022

12/7/22

.....

Signature of Guide
Prof. ASHWINI.M

Signature of H.O.D
DR. DAYANAND . J
Head of Computer Science & Engineering Department,
Guru Nanak Dev Engineering College
BIDAR-585 403 (Karnataka)

EXTERNAL VIVA: 22/7/22

Examiners: 1) ..... 2) .....

PRINCIPAL
Guru Nanak Dev Engg. College, Bidar

ABSTRACT

The Solar System consists of the Sun and the astronomical objects bound to it by gravity, all of which formed from the collapse of a giant molecular cloud approximately 4.6 billion years ago. Of the many objects that orbit the Sun, most of the mass is contained within eight relatively solitary planets[c] whose orbits are almost circular and lie within a nearly flat disc called the ecliptic plane. The four smaller inner planets, Mercury, Venus, Earth and Mars, also called the terrestrial planets, are primarily composed of rock and metal. The four outer planets, the gas giants, are substantially more massive than the terrestrials. The two largest, Jupiter and Saturn, are composed mainly of hydrogen and helium; the two outermost planets, Uranus and Neptune, are composed largely of ices, such as water, ammonia and methane, and are often referred to separately as "ice giants".

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE

This is to certify that the mini project work entitled **"Solar System"** is a bonafide work carried out by **VINAYKUMAR.S.JABNOR (3GN19CS121)** in the partial fulfillment of the requirements for the **Bachelor's degree** in Computer Science and Engineering of the **Visvesvaraya Technological University, Belagavi** during the academic year 2021-2022

.....
Signature of Guide
Prof. ASHWINI.M

.....
Signature of H.O.D,
DR. DAYANAND . J

EXTERNAL VIVA: 22/11/22

Examiners: 1)..... 2) .....

Head of Computer Science & Engineering Department,
Guru Nanak Dev Engineering College
BIDAR-585 403 (Karnataka)

PRINCIPAL
Guru Nanak Dev Engg. College, Bidar

ABSTRACT

The Solar System consists of the Sun and the astronomical objects bound to it by gravity, all of which formed from the collapse of a giant molecular cloud approximately 4.6 billion years ago. Of the many objects that orbit the Sun, most of the mass is contained within eight relatively solitary planets[e] whose orbits are almost circular and lie within a nearly flat disc called the ecliptic plane. The four smaller inner planets, Mercury, Venus, Earth and Mars, also called the terrestrial planets, are primarily composed of rock and metal. The four outer planets, the gas giants, are substantially more massive than the terrestrials. The two largest, Jupiter and Saturn, are composed mainly of hydrogen and helium; the two outermost planets, Uranus and Neptune, are composed largely of ices, such as water, ammonia and methane, and are often referred to separately as "ice giants".

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GURU NANAK DEV ENGINEERING COLLEGE, BIDAR-585 403

DEPT. OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE

This is to certify that mini project work entitled "**GRAPHICAL SIMULATION OF A SHIP** " is a bonafide work carried out by **ZEENATH FATIMA (3GN19CS122)** in partial fulfillment requirements for the award of B.E in Computer Science and Engineering of the **Visvesvaraya Technological University, Belagavi** during the academic year 2021-2022

Signature of Guide

Prof. ASHWINI PAMPATWAR

Signature of H.O.D

Prof. DAYANAND P

Head of Computer Science & Engineering Department, Guru Nanak Dev Engineering College Bidar-585 403 (Karnataka)

External viva:..... 22/7/22

Examiners: 1)..... 2).....

PRINCIPAL

Guru Nanak Dev Engg. College, Bidar

ABSTRACT

This project demonstrates a simple simulation of a ship in different environments. Here the different times of day are represented with different colors for background and lighting. We have also provided a movement operation for the ship with an ability to shoot projectiles from any given position. Here we use the keyboard as an input device. Keyboard events are generated when the mouse is in the window and one of the keys is pressed or released. The GLUT function glutKeyboardFunc is the callback for events generated by pressing the key. When it occurs the ASCII code for the key that generated the event and the location of the mouse are returned. All the keyboard callbacks are registered in a single callback function, such as the following: glutKeyboardFunc(keyboard); The callback is specified in GLUT by the following function call: glutDisplayFunc(display); It is invoked when GLUT determines that the window should be redisplayed.

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GURU NANAK DEV ENGINEERING COLLEGE, BIDAR-585 403

DEPT. OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE

This is to certify that mini project work entitled "**GRAPHICAL SIMULATION OF A SHIP** " is a bonafide work carried out by **TANZEEL MARYAM (3GN19CS109)** in partial fulfillment requirements for the award of B.E in Computer Science and Engineering of the Visvesvaraya **Technological University**, Belagavi during the academic year 2021-2022

Signature of Guide

Prof. ASHWINI PAMPATWAR

Signature of H.O.D

Prof. DAYANAND J

External viva:.....

Examiners: 1)..... 2).....

PRINCIPAL
Guru Nanak Dev Engg. College, Bidar

ABSTRACT

This project demonstrates a simple simulation of a ship in different environments. Here the different times of day are represented with different colors for background and lighting. We have also provided a movement operation for the ship with an ability to shoot projectiles from any given position. Here we use the keyboard as an input device. Keyboard events are generated when the mouse is in the window and one of the keys is pressed or released. The GLUT function glutKeyboardFunc is the callback for events generated by pressing the key. When it occurs the ASCII code for the key that generated the event and the location of the mouse are returned. All the keyboard callbacks are registered in a single callback function. such as the following: glutKeyboardFunc(keyboard): The callback is specified in GLUT by the following function call: glutDisplayFunc(display): It is invoked when GLUT determines that the window should be redisplayed.

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Visvesvaraya Technological University, Belagavi

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

GURU NANAK DEV ENGINEERING COLLEGE,

BIDAR-585401, KARNATAKA

CERTIFICATE

This is to certify that the mini project work entitled "RUBIK'S CUBE" is a Bonafide work carried out by **PRIYANKA B (3GN19CS073)** partial fulfilment of the requirements for the Bachelor's degree in Computer Science and Engineering of the Visvesvaraya Technological University, Belagavi during the academic year 2021-2022.

.....

Signature of Guide

Prof. ASHWINI MANKAL

.....

Signature of HOD

Dr.DAYANAND J

Head of Computer Science & Engineering Department,
Guru Nanak Dev Engineering College
BIDAR-585 403 (Karnataka)

EXTERNAL VIVA:

Examiners:

1) .....

2) .....

PRINCIPAL
Guru Nanak Dev Engg. College, Bidar

ABSTRACT

In this mini project we are going to see, a complex opengl project to show and solvethe puzzle of Rubik's Cube in OpenGL, C++.The center cubies refer to the cubie pieces that are located at the center of each face ofthe Rubik's cube. There is a total of six cubies, and each has one face let, they always stick in the same location corresponding to each other and has a location right to it.he corner cubies refer to the cubic pieces that are located at the corner of the Rubik's cube. There is a total of eight corners, and each has three face lets and the edges also. The edge cubies refer to the edge pieces that are located between each pair of the two corresponding corners. There are 12 different edges in the Rubik's cube, and each hastwo Face lets.All cubes do not have the same color arrangements. The colors utilized for these illustrations is known as BOY (Blue, Orange, and Yellow, are faced in the clockwisedirection). Here, you need to analyze the locations of the centers corresponding to each other, as this is always your color arrangements. White is located opposite to yellow,Blue is located opposite to green,Orange is located opposite red.Orange is also located to the right of blue only if white is facing up along

The axes. The interaction between the windowing system and the OPENGL is initiated.One can Render a rubiks cube in 2 or 3 dimensions.In the 2 dimensions the cube must be flatten Such that the sides of the cube spread into the available space.In this case I used a custom Painting algoritm where I arbitrarily choose the location on each side.The cells of each face in the model are found based upon their position and the surface normal .

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GURU NANAK DEV ENGINEERING COLLEGE, BIDAR

DEPT. OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE

This is to certify that the mini project work entitled " RUBIK'S CUBE Game" is a bonafide work carried out by Syed Zeeshan Hashmi (3GN19CS106), in partial fulfillment of the requirements for the **Bachelor's degree** in Computer Science and Engineering of the **Visvesvaraya Technological University, Belagavi** during the academic year 2021-2022.

12/7/22

Signature of Guide
Prof. Ashwini Mankal

Signature of HOD
Prof. DAYANAND J

Examiner's Signatures:

1.

2.

Head of Computer Science & Engineering Department,
Guru Nanak Dev Engineering College
BIDAR-585 403 (Karnataka)

PRINCIPAL
Guru Nanak Dev Engg. College, Bidar

ABSTRACT

In this mini project we are going to see, a complex opengl project to show and solve the puzzle of Rubik's Cube in OpenGL C++.

The cubies are divided into three different types:

Centre Cubies:
The center cubies refer to the cubie pieces that are located at the center of each face of the Rubik's cube. There is a total of six cubies, and each has one face let, they always stick in the same location corresponding to each other.

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All cubes do not have the same color arrangements. The colors utilized for these illustrations is known as BOY (Blue, Orange, and Yellow, are faced in the clockwise direction). Here, you need to analyze the locations of the centers corresponding to each other, as this is always your color arrangements.

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VISVESVARAYA TECHNOLOGICAL UNIVERSITY,BELAGAVI

GURU NANAK DEV ENGINEERING COLLEGE

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE

This is to certify that the mini project work entitled **"Solar System"** is a bonafide work carried out by **VINAY(3GN19CS120)** in the partial fulfillment of the requirements for the **Bachelor's degree** in Computer Science and Engineering of the **Visvesvaraya Technological University, Belagavi** during the academic year 2021-2022

12/7/22

.....

Signature of Guide
Prof. ASHWINI.M

Signature of HIO.D
DR. DAYANAND . J

Head of Computer Science & Engineering Department,
Guru Nanak Dev Engineering College
BIDAR-585 403 (Karnataka)

EXTERNAL VIVA: 22/7/22

Examiners: 1) ..... 2) .....

22/7/22

PRINCIPAL
Guru Nanak Dev Engg. College, Bidar

ABSTRACT

The Solar System consists of the Sun and the astronomical objects bound to it by gravity, all of which formed from the collapse of a giant molecular cloud approximately 4.6 billion years ago. Of the many objects that orbit the Sun, most of the mass is contained within eight relatively solitary planets[e] whose orbits are almost circular and lie within a nearly flat disc called the ecliptic plane. The four smaller inner planets, Mercury, Venus, Earth and Mars, also called the terrestrial planets, are primarily composed of rock and metal. The four outer planets, the gas giants, are substantially more massive than the terrestrials. The two largest, Jupiter and Saturn, are composed mainly of hydrogen and helium; the two outermost planets, Uranus and Neptune, are composed largely of ices, such as water, ammonia and methane, and are often referred to separately as "ice giants".

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GURU NANAK DEV ENGINEERING COLLEGE, BIDAR-585403, KARNATAKA

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE

This is to certify that the mini project work entitled **"3D CAR SIMULATION "** is a bonafide work carried out by **VAISHNAVI SERIKAR (3GN19CS116)** in partial fulfillment of the requirements for the **Bachelor's degree** in Computer Science and Engineering of the Visvesvaraya Technological University, Belagavi during the academic year 2021-2022.

Signature of Guide
Prof. Ashwini Mankal

Signature of HOD
Dr. DAYANAND J

Head of Computer Science & Engineering Department,
Guru Nanak Dev Engineering College
BIDAR-585 403 (Karnataka)

Examiner's Signatures:

1. 22/7/22
2. 22/7/22

PRINCIPAL
Guru Nanak Dev Engg. College, Bidar

ABSTRACT

3D computer graphics or three-dimensional computer graphics (in contrast with 2D computer graphics) are graphics that use a three dimensional representation of geometric data that is stored in the computer for the purposes of performing calculations and rendering 2D images. Such images may be stored for viewing later or displayed in real time.

3D computer graphics rely on many of the same algorithms as 2D computer vector graphics in the wire frame model and 2D computer raster graphics in the final rendered display. In computer graphics software, 2D applications may use 3D techniques to achieve effects such as lighting, and 3D may use 2D rendering techniques.

3D computer graphics are often referred to as 3D models. Apart from the rendered graphic, the model is contained within the graphical data file. However, there are differences: a 3D model is mathematical representation of any three-dimensional object. A model is not technically a graphic until it is displayed. A model can be displayed visually as a two-dimensional image through a process called 3D rendering or used in non-graphical computer simulations and calculations. With 3D printing, 3D models are similarly rendered into a 3D physical representation of the model, with limitations to how accurate the rendering can match the virtual model.

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GURU NANAK DEV ENGINEERING COLLEGE, BIDAR

DEPT. OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE

This is to certify that the mini project work entitled " RUBIK'S CUBE Game" is a bonafide work carried out by **M A MUQTADIR (3GN19CS034)** in partial fulfillment of the requirements for the **Bachelor's degree** in **Computer Science and Engineering** of the **Visvesvaraya Technological University, Belagavi** during the academic year 2021-2022.

Signature of Guide
Prof. MASARATH BEGUM

Signature of HOD
Prof. DAYANAND J

Examiner's Signatures:

1.

2.

PRINCIPAL
Guru Nanak Dev Engg. College, Bidar

ABSTRACT

In this mini project we are going to see, a complex opengl project to show and solve the puzzle of Rubik's Cube in OpenGL C++.

The cubies are divided into three different types:

Centre Cubies:
The center cubies refer to the cubie pieces that are located at the center of each face of the Rubik's cube. There is a total of six cubies, and each has one face let, they always stick in the same location corresponding to each other.

Corner Cubies:
The corner cubies refer to the cubic pieces that are located at the corner of the Rubik's cube. There is a total of eight corners, and each has three face lets.

Edge Cubies:
The edge cubies refer to the edge pieces that are located between each pair of the corresponding corners. There are 12 different edges in the Rubik's cube, and each has two Face lets.

All cubes do not have the same color arrangements. The colors utilized for these illustrations is known as BOY (Blue, Orange, and Yellow, are faced in the clockwise direction). Here, you need to analyze the locations of the centers corresponding to each other, as this is always your color arrangements.

White is located opposite to yellow.

Blue is located opposite to green.

Orange is located opposite red.

Orange is also located to the right of blue only if white is facing up

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VISVESVARAYA TECHNOLOGY UNIVERSITY, BELAGAVI

GURU NANAK DEV ENGINEERING COLLEGE,

BIDAR-585403, KARNATAKA

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE

This is to certify that the mini project work entitled "LIFT OVER BRIDGE " is a bonafide work carried out by SYEDA RUMANA SHIREEN 3GN19CS107 in partial fulfillment of the requirements for the award of B.E. in Computer Science and Engineering by Visvesvaraya Technological University, Belagavi during Academic year 2021-2022. It is certified that mini project report has been approved as it satisfies the academic requirements in respect of the mini project work prescribed for B.E

Signature of guide
Prof. MASRATH BEGAM

Signature of HOD
Dr. DAYANAND

Examiner 1:

Examiner 2:

PRINCIPAL
Guru Nanak Dev Engg. College, Bidar

ABSTRACT

'A picture is worth a thousand words' goes the ancient Chinese proverb. This has become a cliché in our society after the advent of inexpensive and simple techniques for producing pictures.

Computers have become a powerful medium for the rapid and economical production of pictures. There is virtually no area in which graphical displays cannot be used to some advantage. Graphics provide a so natural means of communicating with a computer that they have become widespread. The fields in which Computer Graphics find their uses are many. Some of them being User Interfaces, Computer Aided Design, Office automation, Desktop Publishing, Plotting of mathematical, scientific or industrial data, Simulation, Art, Presentations, Cartography, to name a few...Here, We have tried to incorporate and present the working environment of a Lift-Over Bridge which is also known as Bascule Bridge in 2D.

The bascule bridge works with a counterweight that balances the span (leaf) while the upward swing provides clearance for boat traffic. Here, we have created a scene consisting of the bascule bridge which operates to allow a boat to pass under it while a bus waits for the leaf of the bridge to swing back into its position and then passes along the bridge after the boat has sailed across. We have provided mouse interface to start and stop animation and to exit the window. We have also included the keyboard input function to change the color of the boat.

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DEPT. OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE

This is to certify that mini project work entitled "**GRAPHICAL SIMULATION OF A SHIP**" is a bonafide work carried out by SOUNDARYA ALLI (3GN19CS100)in partial fulfillment requirements for the award of B.E in Computer Science and Engineering of the Visvesvaraya Technological University, Belagavi during the academic year 2021-2022

18/7/22

Signature of Guide

Prof. ASHWINI PAMPATWAR

Signature of H.O.D

Prof. DAYANAND [illegible]
Engineering Department,
Guru Nanak Dev Engineering College
[illegible]

External viva:.....

Examiners: 1)..... 2).....

22/7/22

PRINCIPAL
Guru Nanak Dev Engg. College, Bidar

ABSTRACT

This project demonstrates a simple simulation of a ship in different environments. Here the different times of day are represented with different colors for background and lighting. We have also provided a movement operation for the ship with an ability to shoot projectiles from any given position. Here we use the keyboard as an input device. Keyboard events are generated when the mouse is in the window and one of the keys is pressed or released. The GLUT function glutKeyboardFunc is the callback for events generated by pressing the key. When it occurs the ASCII code for the key that generated the event and the location of the mouse are returned. All the keyboard callbacks are registered in a single callback function, such as the following: glutKeyboardFunc(keyboard); The callback is specified in GLUT by the following function call: glutDisplayFunc(display); It is invoked when GLUT determines that the window should be redisplayed.

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GURU NANAK DEV ENGINEERING COLLEGE, BIDAR

DEPT. OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE

This is to certify that the mini project work entitled " HELICOPTER GAME" is a bonafide work carried out by **ISHPREET KAUR (3GN19CS031)** in partial fulfillment of the requirements for the **Bachelor's degree** in Computer Science and Engineering of the **Visvesvaraya Technological University, Belagavi** during the academic year 2021-2022.

Signature of Guide
Prof. MASARATH BEGUM

Signature of HOD
Prof. DAYANAND J

Examiner's Signatures:

1. 20/7/22
2. 20/7/22

PRINCIPAL
Guru Nanak Dev Engg. College, Bidar

ABSTRACT

A 2D graphics based game helicopter is a great start for a student who starts learning computer graphics & visualization. The development of the game has large scope to learn computer graphics from scratch. We used OpenGL utility toolkit to implement the algorithm, written it in c++ language.

There is still scope left in the development of project like, after "game over" a list should show top ten scorers, a need to embed a button "play again". Welcome screen need more modification there is scope of embedding buttons like "about", "how to play", "configuration", "profiles", etc. In future we hope we would implement it in source code for better experience of playing this game.

Finally, we could say by developing the game we have learnt the basics of f computer graphics and in future by developing it further we shall learn more..It will be our pleasure if we could develop in 3d graphics package.

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GURU NANAK DEV ENGINEERING COLLEGE, BIDAR

DEPT. OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE

This is to certify that the mini project work entitled " HELICOPTER GAME" is a bonafide work carried out by **GOLDEN KUMAR (3GN19CS028)** in partial fulfillment of the requirements for the **Bachelor's degree** in Computer Science and Engineering of the **Visvesvaraya Technological University, Belagavi** during the academic year 2021-2022.

Signature of Guide
Prof. MASARATH BEGUM

Signature of HOD
Prof. DAYANAND J

Examiner's Signatures:

1. 20/7/22
2. 20/7/22

PRINCIPAL
Guru Nanak Dev Engg. College, Bidar

ABSTRACT

A 2D graphics based game helicopter is a great start for a student who starts learning computer graphics & visualization. The development of the game has large scope to learn computer graphics from scratch. We used OpenGL utility toolkit to implement the algorithm, written it in c++ language.

There is still scope left in the development of project like, after "game over" a list should show top ten scorers, a need to embed a button "play again". Welcome screen need more modification there is scope of embedding buttons like "about", "how to play", "configuration", "profiles", etc. In future we hope we would implement it in source code for better experience of playing this game.

Finally, we could say by developing the game we have learnt the basics of f computer graphics and in future by developing it further we shall learn more. It will be our pleasure if we could develop in 3d graphics package.

PRINCIPAL
Guru Nanak Dev Engg. College, Bidar

CERTIFICATE

OF COMPLETION

This is to certify that

ABHISHEK

has successfully completed

INTERNSHIP Program of **30** days

on **DATA SCIENCE (AI & ML , PYTHON)**

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PRINCIPAL
Manak Dev Engg. College, Bidar

Program Head

#startupindia

Vajre

October 10th, 2021

TO WHOM SO EVER IT MAY CONCERN

We are pleased to inform that **Ms. Afreen Anjum** D/O **Mr. Md Naseeruddin** student of **Gurunanak Dev Engineering College, Bidar, Karnataka** has successfully completed her **30 Days Internship** in **Web Development** Domain from **6th September, 2021** to **6th October, 2021** at **Vajre India Technologies Pvt. Ltd.**

During this internship, the intern was exposed to various activities and projects in **Web Development Domain.**

The intern was found extremely inquisitive and smart working. She has met the requirement of internship to fulfill the requirement of degree of **B.Tech** from **Gurunanak Dev Engineering College, Bidar, Karnataka.** Each and every tasks provided were completed on time and the willingness to get into the depth of the subject was revealed.

Team Vajre India Technologies wishes all the best for future endeavors.

Saurabh Patel

(Saurabh Patel)
Authorized Signatory
Vajre India Technologies Pvt. Ltd.

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Credential ID: VIT231220211602

CIN Number: U72900JH2020PTC015326

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Tel: +91 – 9591745792, Website: www.xciencia.com

Ref No: XCIENCIA/TECH-DEPT/INTER/2021/1101

Date: SEP 30 2021

TO WHOM IT MAY CONCERN

This is to certify that **Ms/Mr. Aishwarya (3GN18CS004)** pursuing Bachelors of Engineering from GURU NANAK DEV ENGINEERING COLLEGE BIDAR has undertaken an internship from our organization **"X-Ciencia Technologies India PVT. LTD"**. He/She has worked on a Real Time project on "Machine Learning Using Python" from Sept 1st 2021 to Sept 30th 2021, under the guidance of Mr.Yasin.His/Her work and submission on the above said project, completely meets the requirements of the initial goal set for him/her and adheres to policies of our organization.

We wish him/her success in all her/his future endeavors

For **X - Ciencia Technologies India Pvt. Ltd.**

HR Department

PAL
lege, Bidar

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Date: SEP 30 2021

TO WHOM IT MAY CONCERN

This is to certify that **Ms/Mr. Aishwarya chalwa (3GN18CS006)** pursuing Bachelors of Engineering from GURU NANAK DEV ENGINEERING COLLEGE BIDAR has undertaken an internship from our organization "**X-Ciencia Technologies India PVT. LTD**". He/She has worked on a Real Time project on "Machine Learning Using Python" from Sept 1st 2021 to Sept 30th 2021, under the guidance of Mr.Yasin.His/Her work and submission on the above said project, completely meets the requirements of the initial goal set for him/her and adheres to policies of our organization.

We wish him/her success in all her/his future endeavors

For **X - Ciencia Technologies India Pvt. Ltd.**

HR Department

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This is to certify that
Aishwarya Patil
has successfully completed
INTERNSHIP Program of **30** days
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Program Head

CERTIFICATE

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This is to certify that

AKSHATA PATIL

has successfully completed

INTERNSHIP Program of 30 days

on DATA SCIENCE (AI & ML , PYTHON)

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This is to certify that

Akshay Kumar

has successfully completed

INTERNSHIP Program of **30** days

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Times College, Bidar

Program Head

Internship Certificate

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Vajre

August 20, 2021

TO WHOM SO EVER IT MAY CONCERN

We are pleased to inform that **Ms. Amandeep Kaur** D/O **Mr. Swaran Singh** student of **Gurunanak Dev Engineering College, Bidar, Karnataka** has successfully completed her **30 Days Internship** in Web Development Domain from **20th August, 2021** to **20th September, 2021** at **Vajre India Technologies Pvt. Ltd.**

During this internship, the intern was exposed to various activities and projects in **Web Development Domain.**

The intern was found extremely inquisitive and smart working. She has met the requirement of internship to fulfill the requirement of degree of **BE** from **Gurunanak Dev Engineering College, Bidar, Karnataka.** Each and every tasks provided were completed on time and the willingness to get into the depth of the subject was revealed.

Team Vajre India Technologies wishes all the best for future endeavors.

Saurabh Patel

(Saurabh Patel)
Authorized Signatory
Vajre India Technologies Pvt. Ltd.

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g. College, Bidar

Credential ID: VIT260920212117

CIN Number: U72900JH2020PTC015326

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www.vajreindiatechnologies.com

Internship certificate

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Vajre

October 10th, 2021

TO WHOM SO EVER IT MAY CONCERN

We are pleased to inform that **Ms. Amreen Naazneen** D/O **Mr Nazeer Ahmed Awati** student of **Gurunanak Dev Engineering College, Bidar, Karnataka** has successfully completed her **30 Days Internship** in Web Development Domain from **6th September, 2021** to **6th October, 2021 at Vajre India Technologies Pvt. Ltd.**

During this internship, the intern was exposed to various activities and projects in **Web Development Domain.**

The intern was found extremely inquisitive and smart'working. She has met the requirement of internship to fulfill the requirement of degree of **BE** from **Gurunanak Dev Engineering College, Bidar, Karnataka.** Each and every tasks provided were completed on time and the willingness to get into the depth of the subject was revealed.

Team Vajre India Technologies wishes all the best for future endeavors.

Saurabh Patel
(Saurabh Patel)
Authorized Signatory
Vajre India Technologies Pvt. Ltd.

…NCIPAL
…ng. College, Bidar

Credential ID: VIT2312202116 58

CIN Number: U72900HR2020PTC055326

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CERTIFICATE

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This is to certify that

Anmol Preet singh

has successfully completed

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Ref No: XCIENCIA/TECH-DEPT/INTER/2021/1101

Date: SEP 30 2021

TO WHOM IT MAY CONCERN

This is to certify that **Ms/Mr. Apoorva S Patil (3GN18CS016)**pursuing Bachelors of Engineering from GURU NANAK DEV ENGINEERING COLLEGE BIDAR has undertaken an internship from our organization **"X-Ciencia Technologies India PVT. LTD"**. He/She has worked on a Real Time project on "Machine Learning Using Python" from Sept 1st 2021 to Sept 30th 2021, under the guidance of Mr.Yasin.His/Her work and submission on the above said project, completely meets the requirements of the initial goal set for him/her and adheres to policies of our organization.

We wish him/her success in all her/his future endeavors

For **X - Ciencia Technologies India Pvt. Ltd.**

HR Department

X-Ciencia Technologies India Pvt. Ltd.

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Vajre

-March 11th, 2022

TO WHOMSOEVER IT MAY CONCERN

We are pleased to inform that **AYESHA BEGUM,** D/O, **AFSAR PASHA** student of **GURU NANAK DEV ENGINEERING COLLEGE BIDAR, MAILOOR ROAD BIDAR-585403** has successfully completed 45 **Days Internship** in Web Development Domain at **Vajre India Technologies Pvt. Ltd.**

During this internship, the intern was exposed to various activities and projects in **Web Development Domain.**

The intern was found extremely inquisitive and smart working. She has met the requirement of internship to fulfill the requirement of degree of **BE** from **GURU NANAK DEV ENGINEERING COLLEGE BIDAR, MAILOOR ROAD BIDAR-585403.** Each and every task provided was completed on time and the willingness to get into the depth of the subject was revealed.

Team Vajre India Technologies wishes all the best for future endeavors.

Saurabh Patel

(Saurabh Patel)
Authorized Signatory
Vajre India Technologies Pvt. Ltd.

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www.vajreindiatechnologies.com

ABSTRACT

Student admission problem is very important in educational institutions. This paper addresses machine learning models to predict the chance of a student to be admitted to a master's program. This will assist students to know in advance if they have a chance to get accepted. The machine learning models are multiple linear regression, logistic regression, and Multilayer Perceptron.

In this project, we will be using the Admission_predict dataset in csv format to predict the chances of students getting admission by a university based on several academic performance measurements. To yield the most accurate result, we will be going through several steps such as data preprocessing, t-test, feature selection, cross validation, model selection, etc. to train a linear regression model, make prediction and measure its performance.

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www.infidata.in

Ref: INFIDATA/Internship/2021/420

Date: 30/09/2021

CERTIFICATE OF INTERNSHIP

This is to certify that **Ms. BASAVAPRIYA [USN: 3GN18CS019]**, a student of B.E in Computer Science and Engineering from **"Guru Nanak Dev Engineering College"** Bidar, has successfully completed internship work on the domain "***WEB Application Development***" and she has worked on a project titled "***Tourism Management System***" at Infidata Technologies Development Centre from 1st September 2021 to 30th September 2021 under the guidance of **Mr. Nagamahesh B S**, Senior Software Developer. During the period of her internship program with us she was found punctual and creative.

Internship/Project Guide

Director-Development Division

INFIDATA TECHNOLOGIES BENGALURU - 64

PAL
College, Bidar

CERTIFICATE OF COMPLETION

InfiData TECHNOLOGIES

INFIDATA TECHNOLOGIES

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This is to certify that

Ms. BHAGYASHREE

has successfully completed training on

JAVA APPLICATION DEVELOPMENT

Duration : Training - 50 Hours & Project Development - 10 Hours

Training Date : 1st September 2021 - 30th September 2021

Training Location : InfiData Technologies, Yelahanka Newtown, Bengaluru-64

Certificate No : CINFI02121

Certification Date : 30th September 2021

Assessment Score : 96 out of 100 Marks

MCQ Test (50)	Assignment (20)	Project Work & Presentation (30)	Total Score (100)
50	18	28	**96**

DIRECTOR - TRAINING DIVISION

For certificate authorization en
Please write to info@infidat

CERTIFICATE

OF COMPLETION

This is to certify that

BHAGYAVANTI BIRADAR

has successfully completed

INTERNSHIP Program of 30 days

on DATA SCIENCE (AI & ML , PYTHON)

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has successfully completed

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Ref No: XCIENCIA/TECH-DEPT/INTER/2021/1101

Date: SEP 30 2021

TO WHOM IT MAY CONCERN

This is to certify that **Ms/Mr. Deepika (3GN18CS024)** pursuing Bachelors of Engineering from GURU NANAK DEV ENGINEERING COLLEGE BIDAR has undertaken an internship from our organization "**X-Ciencia Technologies India PVT. LTD**". He/She has worked on a Real Time project on "Machine Learning Using Python" from Sept 1st 2021 to Sept 30th 2021, under the guidance of Mr.Yasin.His/Her work and submission on the above said project, completely meets the requirements of the initial goal set for him/her and adheres to policies of our organization.

We wish him/her success in all her/his future endeavors

For **X - Ciencia Technologies India Pvt. Ltd.**

HR Department

X-Ciencia Technologies India Pvt. Ltd.

PRINCIPAL
College, Bidar

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This is to certify that

Dinesh

has successfully completed

INTERNSHIP Program of **30** days

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Program Head

PRINCIPAL
[illegible]. College, Bidar

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This is to certify that

Divya rani

has successfully completed

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Program Head

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Vajre

May 8th, 2022

TO WHOMSOEVER IT MAY CONCERN

We are pleased to inform that **Fatima Begum,** D/O, **Mohammed Hussain** student of **Guru Nanak Dev Engineering College, Bidar, Karnataka, Bidar** has successfully completed **45 Days Internship** in Web Development Domain at **Vajre India Technologies Pvt. Ltd.**

During this internship, the intern was exposed to various activities and projects in **Web Development Domain.**

The intern was found extremely inquisitive and smart working. She has met the requirement of internship to fulfill the requirement of degree of **BE** from **Guru Nanak Dev Engineering College, Bidar, Karnataka, Bidar.** Each and every task provided was completed on time and the willingness to get into the depth of the subject was revealed.

Team Vajre India Technologies wishes all the best for future endeavors.

Saurabh Patel

(Saurabh Patel)
Authorized Signatory
Vajre India Technologies Pvt. Ltd.

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has successfully completed

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15th DEC 2021
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AICRA
CERTIFIED BY

Program Head

CERTIFICATE

OF COMPLETION

This is to certify that

Gurpreet Kaur

has successfully completed

INTERNSHIP Program of **30** days

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Program Head

PRINCIPAL
Engg. College, Bidar

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TAKE IT SMART (OPC) PVT. LTD

Ref No: 2021/07/28 **Date:1/10/2021**

To Whom It May Concern

This is to Certify that **Miss/Mr. H MRUTTUNJAY** Bearing **USN 3GN18CS031** is a Bonafide Student of **GURU NANAK DEV ENGINEERING COLLEGE BIDAR** STUDYING **COMPUTER SCIENCE ENGINEERING** has Undertaken Internship in " **FULL STACK WEB DEVELOPMENT**" with us from **1st SEPTEMBER 2021 to 30th SEPTEMBER 2021.**

During the period of her/ his Internship program with us, she/ he had been exposed to different processes and was found diligent, hardworking and inquisitive.

We take this opportunity to thank him/her and wish him/her all the best for his/her future.

For, Take it smart (OPC) Pvt.Ltd

TAKE IT SMART (OPC) PVT. LTD.

Mr. MALLIKARJUN KUMBAR
DIRECTOR

PRINCIPAL
Guru Nanak Dev Engg. College, Bidar

1274 2nd Floor, Sanitary Core,
3rd phase, Yelahanka New Town,
Bengaluru, Karnataka - 560 064.

#startupindia

Vajre

March 11th, 2022

TO WHOMSOEVER IT MAY CONCERN

We are pleased to inform that **Hafsa Fatima** , D/O, **Akram arif** student of **Gurunanak dev engineering college** , **Bidar** has successfully completed **45 Days Internship** in Web Development Domain at **Vajre India Technologies Pvt. Ltd.**

During this internship, the intern was exposed to various activities and projects in **Web Development Domain.**

The intern was found extremely inquisitive and smart working. She has met the requirement of internship to fulfill the requirement of degree of **BE** from **Gurunanak dev engineering college , Bidar.** Each and every task provided was completed on time and the willingness to get into the depth of the subject was revealed.

Team Vajre India Technologies wishes all the best for future endeavors.

Saurabh Patel

(Saurabh Patel)
Authorized Signatory
Vajre India Technologies Pvt. Ltd.

PRINCIPAL
Engg. College, Bidar

Where Ideas Flourish
Vajre
Vajre India Technologies

CIN Number: U72900JH2020PTC015326

Gamma 1st Block D 9, Greater Noida, Uttar Pradesh, 201308
M: - +91 7781937988; +91 8521002864, Email: - admin@vajreindiatechnologies.com
www.vajreindiatechnologies.com

CERTIFICATE
OF COMPLETION

This is to certify that

Ibtesam mahveen

has successfully completed

INTERNSHIP Program of **30** days

on **DATA SCIENCE (AI & ML , PYTHON)**

technology offered by

Times Institute of Management & Technical Studies

certified by

AICRA - All India Council for Robotics & Automation

15th DEC 2021
Issued on:

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PRINCIPAL
Engg. College, Bidar
Bidar

Program Head

Grotoy Smart Farms Pvt. Ltd.

INTERNSHIP CERTIFICATE

Date: 03-10-2021

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **IbtesamZarrine** has completed her internship as **IT Intern** at **Grotoy Smart Farms Private Limited** from 3rd **September 2021** to 3rd **October 2021.**

She has worked on a project titled **Flutter Application Development.**

During her internship she has demonstrated her skills with self-motivation to learn new skills. Her performance exceeded our expectations and she was able to complete the project on time.

We wish her all the best for her future endeavours.

Grotoy Smart Farms Pvt. Ltd.

Nikarika

NikarikaPuri

Co-founder

PRINCIPAL
Guru Nanak Dev Engg. College, Ridge

5th floor, White House, Tilak Road, 1482 Sadashiv Peth, Pune, MH 411030 IN

Lakhan Maheshwari - 9479708081
Nikarika Puri - 7408083129

INTERNSHIP CERTIFICATE

Compsoft Technologies

Providing a Complete Suite of IT Services

Certificate ID - 1CST21FSWDB2030

Date - 29/09/2021

Certificate of Internship

This is to Certify that Mr. Imran Mudasir (3GN18CS035) Student of "Visvesvaraya Technological University" has completed one month Internship on "Full Stack Web Development" in our Company from 19th August 2021 to 27th September 2021 in association with TAKEITEASY ENGINEERS.

He was very much interested to learn the fundamentals of Full Stack Web Development and also willing to put in his efforts. His association with us was very fruitful and we wish him all the best in his future endeavors.

PRINCIPAL
Guru Nanak Dev Engg. College, Bidar

Dhanush S
(Project Manager)

Compsoft Technologies
No. 363, 19th main road,
1st Block Rajajinagar Bangalore- 560010

www.compsoftechnologies.com

services@compsoftechnologies.com

*Search Engine Optimisation
*Branding and Design
*Development
*Content Writing
*ML & Research
*Embedded Systems and IOT

Grotoy Smart Farms Pvt. Ltd.

INTERNSHIP CERTIFICATE

Date: 03-10-2021

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **JadhavKritikaKondu** has completed her internship as **IT Intern** at **Grotoy Smart Farms Private Limited** from **3rd September 2021** to **3rd October 2021.**

She has worked on a project titled **Flutter ApplicationDevelopment.**

During her internship she has demonstrated her skills with self-motivation to learn new skills. Her performance exceeded our expectations and she was able to complete the project on time.

We wish her all the best for her future endeavours.

Grotoy Smart Farms Pvt. Ltd.

Niharika

NihārikaPuri

Co-founder

PRINCIPAL
Dev Engg. College, Bidar

6th floor, White House, Tilak Road, 1482 Sadashiv Peth, Pune, MH 411030 IN

Laxman Maheshwari - 9479708081
Niharika Puri - 7408083129

Email id: admin@grotoy.com
support@grotoy.com

CIN : U01111PN2021PTC205496

www.grotoy.com

INTERN CERTIFICATE

PRIYAS HUB

Date: 08-10-2021

TO WHOM IT MAY CONCERN

This is to certify that Mr. Shashank KS, a student of BE CSE (Major in computer science), Guru Nanak Dev Engineering College,Bidar has successfully completed (Android Application Development) 01 (one) months (From 9th september, 2021 to 08th October, 2021) long internship programme at this Company. During the period of his internship programme with us he was found punctual hardworking and inquisitive

We wish him every success in life

For priyas hub private limited

PRIYAS HUB PVT LTD CHENNAI

C. Surya

Authorized signature

PRINCIPAL
Guru Nanak Dev Engg. College, Bidar

CERTIFICATE
OF COMPLETION

This is to certify that

KAILASH

has successfully completed

INTERNSHIP Program of **30** days

on **DATA SCIENCE (AI & ML , PYTHON)**

technology offered by

Times Institute of Management & Technical Studies

certified by

AICRA - All India Council for Robotics & Automation

15th DEC 2021
Issued on:

CERTIFIED BY

Program Head

PRINCIPAL
Dev Engg. College, Bidar

CERTIFICATE

OF COMPLETION

This is to certify that

Kavya

has successfully completed

INTERNSHIP Program of **30** days

on **DATA SCIENCE (AI & ML , PYTHON)**

technology offered by

Times Institute of Management & Technical Studies

certified by

AICRA - All India Council for Robotics & Automation

15th DEC 2021

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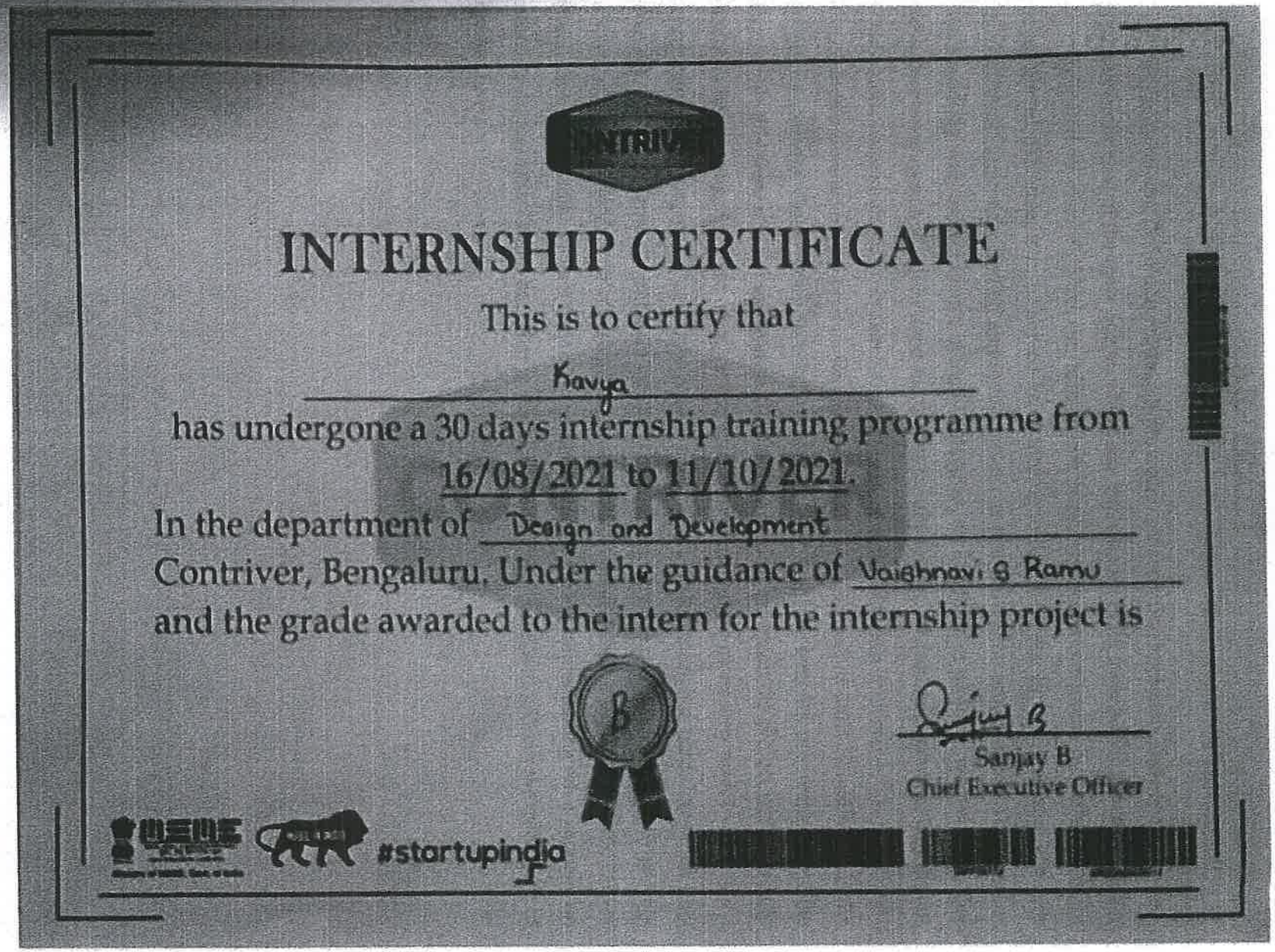
PRINCIPAL

... Engg. College, Bidar

Program Head



INTERNSHIP CERTIFICATE

This is to certify that

Kavya

has undergone a 30 days internship training programme from 16/08/2021 to 11/10/2021.

In the department of Design and Development Contriver, Bengaluru. Under the guidance of Vaishnavi G Ramu and the grade awarded to the intern for the internship project is

B

Sanjay B
Chief Executive Officer

#startupindia

ABSTRACT

Project requirement definition requires a progressive elaboration approach.Thisapproach starts with high-level definition of the oject Scope, which sets the boundaries for areas within the organization that are anticipated to change. Next, the team expands on the scope statement by collaboratively uncovering the needstatements to be solved for according to requirements. Finally, the team can drill down to a technical approach, finding appropriate solutions that satisfy the project needs.Through our experience working with project teams, in many industries, on hundreds of projects, we recognize that although project managers may understand the theory for developing project requirements, they do not have viable tools, techniques, or processes for enabling project stakeholders to clearlydefine their needs and the expected outcomes for the project. On many projects,the requirements definition effort can take months or, in extreme cases, years to complete before any tangible benefits are realized by the projecteffort. In this case, it is not uncommon for the environment in which the project was originally established to have changed.All too often, project teams dive into the solutions they want to implement before ever gaining alignment on and before fully understanding theunderlying needs for which they should be solving. Many times project team members believe thatthey can save the team time by starting with a solution, rather than starting at thebeginning of the project and defining the needs. These "silver bullet" solutionsrarely work. In fact, they often result in project teams' implementing what appears, on the surface, to be a great solution, but what in reality is a solution that fails to address the true needs of the organization

InfiData
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INFIDATA TECHNOLOGIES
#2341, 2nd floor 16th 'B' cross
Yelahanka Newtown, Bengaluru-560064
+91 7090240240 | info@infidata.in
www.infidata.in

Ref: INFIDATA/Internship/2021/422 **Date: 30/09/2021**

CERTIFICATE OF INTERNSHIP

This is to certify that **Ms. KIRAN [USN: 3GN18CS042]**, a student of B.E in Computer Science and Engineering from **"Guru Nanak Dev Engineering College"** Bidar, has successfully completed internship work on the domain ***"WEB Application Development"*** and she has worked on a project titled ***"Tourism Management System"*** at Infidata Technologies Development Centre from 1st September 2021 to 30th September 2021 under the guidance of **Mr. Nagamahesh B S**, Senior Software Developer. During the period of her internship program with us she was found punctual and creative.

Internship/Project Guide

Director-Development Division

INFIDATA TECHNOLOGIES * BENGALURU-64 *

ABSTRACT

Student admission problem is very important in educational institutions. This paper addresses machine learning models to predict the chance of a student to be admitted to a master's program. This will assist students to know in advance if they have a chance to get accepted. The machine learning models are multiple linear regression, logistic regression, and Multilayer Perceptron.

In this project, we will be using the Admission_predict dataset in csv format to predict the chances of students getting admission by a university based on several academic performance measurements. To yield the most accurate result, we will be going through several steps such as data preprocessing, t-test, feature selection, cross validation, model selection, etc. to train a linear regression model, make prediction and measure its performance.

CERTIFICATE
OF COMPLETION

This is to certify that

Kiran

has successfully completed

INTERNSHIP Program of **30** days

on **DATA SCIENCE (AI & ML , PYTHON)**

technology offered by

Times Institute of Management & Technical Studies

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AICRA - All India Council for Robotics & Automation

15th DEC 2021
Issued on:

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Program Head

ABSTRACT

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CERTIFICATE

OF COMPLETION

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K anand

has successfully completed

INTERNSHIP Program of **30** days

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Program Head

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CERTIFICATE

OF COMPLETION

This is to certify that

KRISHNAKANT SONJI

has successfully completed

INTERNSHIP Program of **30** days

on **DATA SCIENCE (AI & ML , PYTHON)**

technology offered by

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Program Head

ABSTRACT

Heart failure — sometimes known as congestive heart failure — occurs when the heart muscle doesn't pump blood as well as it should. When this happens, blood often backs up and fluid can build up in the lungs, causing shortness of breath.

Certain heart conditions, such as narrowed arteries in the heart (coronary artery disease) or high blood pressure, gradually leave the heart too weak or stiff to fill and pump blood properly.

Proper treatment can improve the signs and symptoms of heart failure and may help some people live longer. Lifestyle changes — such as losing weight, exercising, reducing salt (sodium) in your diet and managing stress — can improve your quality of life. However, heart failure can be life-threatening. People with heart failure may have severe symptoms, and some may need a heart transplant or a ventricular assist device (VAD).

One way to prevent heart failure is to prevent and control conditions that can cause it, such as coronary artery disease, high blood pressure, diabetes and obesity.

So, the main goal here is to predict whether the individual has any heart problems, further leading towards heart failure. People with cardiovascular disease or who are at high cardiovascular risk (due to the presence of one or more risk factors such as hypertension, diabetes, hyperlipidaemia or already established disease) need early detection and management wherein a machine learning model can be of great help.

CERTIFICATE

OF COMPLETION

This is to certify that

Lisha Patel

has successfully completed

INTERNSHIP Program of **30** days

on **DATA SCIENCE (AI & ML , PYTHON)**

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Program Head

ABSTRACT

Student admission problem is very important in educational institutions. This paper addresses machine learning models to predict the chance of a student to be admitted to a master's program. This will assist students to know in advance if they have a chance to get accepted. The machine learning models are multiple linear regression, logistic regression, and Multilayer Perceptron.

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INTERNSHIP CERTIFICATE

This is to certify that

Mamata

has undergone a 30 days internship training programme from 16/08/2021 to 11/10/2021.

In the department of Programming and Development Contriver, Bengaluru. Under the guidance of Tushar Punjabi and the grade awarded to the intern for the internship project is

B

Sanjay B
Chief Executive Officer

Ministry of MSME, Govt. of India

#startupindia

DIPP25772

KR22A0005511

PRINCIPAL

ABSTRACT

The work seeks to evaluate the performance of CNNs with respect to Fashion MNIST data set. Fashion MNIST is a dataset of images consisting of 60000 28 × 28 grayscale images, associated with a label from 10 classes. The training process has been coded with Tens or flow. After the result accuracy improving, we could use the new model to the fashion company that can help the fashion company more accurately classify clothing. Moreover you could build your own closet online for your fashion. An internship provides an opportunity for students to better understand the link between academia and industry and enhances the career prospects of students which will help jump-starting their careers.

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INTERNSHIP
PROGRAM - 2021

e-BRAIN SOFTECH PVT LTD
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Certificate No : EBIP2021B1B-40

Certificate of Internship

This is to Certify that

Mr./Ms. **Mansee pathak (3GN18CS049)** from **Guru Nanak Dev Engineering College** has successfully completed his/her remote internship program for a duration of 1 month from 30/08/2021 to 29/09/2021. During this period he/she has learned and contributed for a project under Machine Learning domain.

Shaik Imam,
Director

PRINCIPAL
Guru Nanak Dev Engg. College, Bidar

ABSTRACT

The work seeks to evaluate the performance of CNNs with respect to Fashion MNIST data set. Fashion MNIST is a dataset of images consisting of 60000 28 × 28 grayscale images, associated with a label from 10 classes. The training process has been coded with Tens or flow. After the result accuracy improving, we could use the new model to the fashion company that can help the fashion company more accurately classify clothing. Moreover you could build your own closet online for your fashion. An internship provides an opportunity for students to better understand the link between academia and industry and enhances the career prospects of students which will help jump-starting their careers.

PRINCIPAL
Guru Nanak Dev Engg. College, Bidar

REMOTE
INTERNSHIP
PROGRAM - 2021

e-BRAIN SOFTECH PVT LTD
The new era unfolds...

Certificate No : EBIP2021B1B-41

Certificate of Internship

This is to Certify that

Mr./Ms. **Mansi (3GN18CS050)** from **Guru Nanak Dev Engineering College** has successfully completed his/her remote internship program for a duration of 1 month from 30/08/2021 to 29/09/2021. During this period he/she has learned and contributed for a project under Machine Learning domain.

PRINCIPAL
Guru Nanak Dev Engg. College, Bidar

Shaik Imam,
Director

ABSTRACT

The work seeks to evaluate the performance of CNNs with respect to Fashion MNIST data set. Fashion MNIST is a dataset of images consisting of 60000 28 × 28 grayscale images, associated with a label from 10 classes. The training process has been coded with Tens or flow. After the result accuracy improving, we could use the new model to the fashion company that can help the fashion company more accurately classify clothing. Moreover you could build your own closet online for your fashion. An internship provides an opportunity for students to better understand the link between academia and industry and enhances the career prospects of students which will help jump-starting their careers.

PRINCIPAL
Guru Nanak Dev Engg. College, Bidar

CERTIFICATE

OF COMPLETION

This is to certify that

Marshal Kevin

has successfully completed

INTERNSHIP Program of **30** days

on **DATA SCIENCE (AI & ML , PYTHON)**

technology offered by

Times Institute of Management & Technical Studies

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AICRA - All India Council for Robotics & Automation

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Program Head

PRINCIPAL
Guru Nanak Dev Engg. College, Bidar

ABSTRACT

Student admission problem is very important in educational institutions. This paper addresses machine learning models to predict the chance of a student to be admitted to a master's program. This will assist students to know in advance if they have a chance to get accepted. The machine learning models are multiple linear regression, logistic regression, and Multilayer Perceptron.

In this project, we will be using the Admission_predict dataset in csv format to predict the chances of students getting admission by a university based on several academic performance measurements. To yield the most accurate result, we will be going through several steps such as data preprocessing, t-test, feature selection, cross validation, model selection, etc. to train a linear regression model, make prediction and measure its performance.

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Guru Nanak Dev Engg. College, Bidar

INTERNSHIP CERTIFICATE

Compsoft Technologies

Providing a Complete Suite of IT Services

Certificate ID - 1CST21FSWDB2011

Date - 29/09/2021

Certificate of Internship

This is to Certify that Mr. Mohammed Haji Ali (3GN18CS053) Student of "Visvesvaraya Technological University" has completed one month Internship on "Full Stack Web Development" in our Company from 19th August 2021 to 27th September 2021 in association with TAKEITEASY ENGINEERS.

He was very much interested to learn the fundamentals of Full Stack Web Development and also willing to put in his efforts. His association with us was very fruitful and we wish him all the best in his future endeavors.

Dhanush S
(Project Manager)

Compsoft Technologies
No. 363, 19th main road,
1st Block Rajajinagar Bangalore- 560010

www.compstechnologies.com

services@compstechnolgies.com

PRINCIPAL
College, Bidar

ABSTRACT

The paper manages the reason for affirmation of vehicle speed subject to data from video record. In hypothetical part we portray the most vital procedures, to be unequivocal Gaussian blend models, DBSCAN, Kalman channel, Optical stream. The execution part is incorporated the planning game plan and the delineation of procedures for correspondence of individual areas. The end contains the primer of picked up video records utilizing various vehicles, various natures of driving and the vehicle position at the time of chronicle.

PRINCIPAL
Guru Nanak Dev Engg. College, Bidar

INTERNSHIP CERTIFICATE

Compsoft Technologies

Providing a Complete Suite of IT Services

Certificate ID - 1CST21FSWDB2012

Date - 29/09/2021

Certificate of Internship

This is to Certify that Mr. Mohd Imran Ahmed (3GN18CS054) Student of "Visvesvaraya Technological University" has completed one month Internship on "Full Stack Web Development" in our Company from 19th August 2021 to 27th September 2021 in association with TAKEITEASY ENGINEERS.

He was very much interested to learn the fundamentals of Full Stack Web Development and also willing to put in his efforts. His association with us was very fruitful and we wish him all the best in his future endeavors.

Dhanush S
(Project Manager)

PRINCIPAL
Guru Nanak Dev Engg. College, Bidar

Compsoft Technologies
No. 363, 19th main road,
1st Block Rajajinagar Bangalore- 560010

www.compstechnologies.com

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***Search Engine Optimisation** ***Development** ***ML & Research**

***Branding and Design** ***Content Writing** ***Embedded Systems and IOT**

ABSTRACT

The paper manages the reason for affirmation of vehicle speed subject to data from video record. In hypothetical part we portray the most vital procedures, to be unequivocal Gaussian blend models, DBSCAN, Kalman channel, Optical stream. The execution part is incorporated the planning game plan and the delineation of procedures for correspondence of individual areas. The end contains the primer of picked up video records utilizing various vehicles, various natures of driving and the vehicle position at the time of chronicle.

PRINCIPAL
Guru Nanak Dev Engg. College, Bidar

Knowx
Beyond Innovations.
An Embedded and Telecom company.

CERTIFICATE

We present this certificate to **Mr. Md Imranuddin (USN : 3GN18CS055)** in recognition of his hard work and dedication as an intern at Knowx Innovations (P) Ltd, in **Machine Learning**. The internship training program was conducted between **28th March 2022 to 28th April 2022.** During this program he has undergone hands on training in python programming, SQL DB, machine learning algorithms and was involved in design & development of project titled "Vehicle Speed Detection Using Machine Learning in Python".

Congratulations & best wishes for his future endeavors.

For **KNOWX Innovations (P) Ltd.**

Knowx Innovations (P) Ltd.
No. 56, 2nd Floor,
Pushpagiri Complex,
Vijayanagar, Bangalore - 560 040
Ph : 91-80-41735554

Umm. N
HR Manager.

PRINCIPAL
Dev Engg. College, Bidar

Knowx Innovations (p) Ltd.
Corporate office and works : # 56/56, 2nd Floor, Pushpagiri Complex, 17th Cross, 8th Main,
Vijayanagar, Bangalore - 560 040. INDIA. Ph : 91-080-41735554
www.knowxindia.com

ABSTRACT

The paper manages the reason for affirmation of vehicle speed subject to data from video record. In hypothetical part we portray the most vital procedures, to be unequivocal Gaussian blend models, DBSCAN, Kalman channel, Optical stream. The execution part is incorporated the planning game plan and the delineation of procedures for correspondence of individual areas. The end contains the primer of picked up video records utilizing various vehicles, various natures of driving and the vehicle position at the time of chronicle.

CIPAL
College Bidar

Internship on WEB DEVELOPMENT

INTERNSHIP CERTIFICATE

Compsoft Technologies

Providing a Complete Suite of IT Services

Certificate ID - 1CST21FSWDB2010

Date - 29/09/2021

Certificate of Internship

This is to Certify that Mr. Md Irfan Hussain (3GN18CS056) Student of "Visvesvaraya Technological University" has completed one month Internship on "Full Stack Web Development" in our Company from 19th August 2021 to 27th September 2021 in association with TAKEITEASY ENGINEERS.

He was very much interested to learn the fundamentals of Full Stack Web Development and also willing to put in his efforts. His association with us was very fruitful and we wish him all the best in his future endeavors.

Dhanush S
(Project Manager)

PRINCIPAL
Guru Nanak Dev Engg. College, Bidar

Compsoft Technologies
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1st Block Rajajinagar Bangalore- 560010

www.compsoftechnologies.com

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*Search Engine Optimisation
*Branding and Design
*Development
*Content Writing
*ML & Research
*Embedded Systems and IOT

ABSTRACT

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PRINCIPAL
Guru Nanak Dev Engg. College, Bidar

Grotoy Smart Farms Pvt. Ltd.

INTERNSHIP CERTIFICATE

Date: 03-10-2021

TO WHOMSOEVER IT MAY CONCERN

This is to certify **Md Nasrullah Khan** has completed his internship as **IT Intern** at **Grotoy Smart Farms Private Limited** from 3rd **September 2021** to 3rd **October 2021**.

He has worked on a project titled **Flutter Application Development**.

During his internship he has demonstrated his skills with self-motivation to learn new skills. His performance exceeded our expectations and he was able to complete the project on time.

We wish him all the best for his future endeavours.

Grotoy Smart Farms Pvt. Ltd.

Niharika

NiharikaPuri

Co-founder

Grotoy Smart Farms Pvt. Ltd.

Bidar

6th floor, White House, Tilak Road, 1482 Sadashiv Peth, Pune, MH 411030 IN

Lakhan Maheshwari - 9479708081
Niharika Puri - 7408083129

Email id: admin@grotoy.com
support@grotoy.com

CIN : U01111PN2021PTC203496

www.grotoy.com

ABSTRACT

Student admission problem is very important in educational institutions. This paper addresses machine learning models to predict the chance of a student to be admitted to a master's program. This will assist students to know in advance if they have a chance to get accepted. The machine learning models are multiple linear regression, logistic regression, and Multilayer Perceptron.

In this project, we will be using the Admission_predict dataset in csv format to predict the chances of students getting admission by a university based on several academic performance measurements. To yield the most accurate result, we will be going through several steps such as data preprocessing, t-test, feature selection, cross validation, model selection, etc. to train a linear regression model, make prediction and measure its performance.

PRINCIPAL
Guru Nanak Dev Engg. College, Bidar

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Vajre

October 10th, 2021

TO WHOM SO EVER IT MAY CONCERN

We are pleased to inform that **Md Shujaath Khan** S/O **Md Mujeeb Khan** student of **Guru Nanak Dev Engineering College, Bidar** has successfully completed his **30 Days Internship** in Web Development Domain from **6th September, 2021** to **6th October, 2021** at **Vajre India Technologies Pvt. Ltd.**

During this internship, the intern was exposed to various activities and projects in **Web Development.**

The intern was found extremely inquisitive and smart working. He has met the requirement of internship to fulfill the requirement of degree of **BE** from **Guru Nanak Dev Engineering College, Bidar.** Each and every tasks provided were completed on time and the willingness to get into the depth of the subject was revealed.

Team Vajre India Technologies wishes all the best for future endeavors.

Saurabh Patel

(Saurabh Patel)
Authorized Signatory
Vajre India Technologies Pvt. Ltd.

Where Ideas Flourish
Vajre
Vajre India Technologies

PRINCIPAL
Engg. College, Bidar

Credential ID: VIT281220211203

CIN Number: U72900JH2020PTC015326

IIMT Incubation Center, Knowledge Park 3, Plot no. 20 A, Greater Noida, Uttar Pradesh, 201308
M: - +91 7781937988; +91 8521002864, Email: - admin@vajreindiatechnologies.com
www.vajreindiatechnologies.com

ABSTRACT

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In this project, we will be using the Admission_predict dataset in csv format to predict the chances of students getting admission by a university based on several academic performance measurements. To yield the most accurate result, we will be going through several steps such as data preprocessing, t-test, feature selection, cross validation, model selection, etc. to train a linear regression model, make prediction and measure its performance.

PRINCIPAL
Guru Nanak Dev Engg. College, Bidar

Grotoy Smart Farms Pvt. Ltd.

INTERNSHIP CERTIFICATE

Date: 03-10-2021

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Sankhla Mukesh** has completed his internship as **IT Intern** at **Grotoy Smart Farms Private Limited** from 3rd **September 2021** to 3rd **October 2021**.

He has worked on a project titled **MVP Development.**

During his internship he has demonstrated his skills with self-motivation to learn new skills. His performance exceeded our expectations and he was able to complete the project on time.

We wish him all the best for his future endeavours.

Grotoy Smart Farms Pvt. Ltd.

Niharika

Niharika Puri

Co-founder

Grotoy Smart Farms Pvt. Ltd.

PRINCIPAL
Guru Nanak Dev Engg. College, Bidar

6th floor, White House, Tilak Road, 1482 Sadashiv Peth, Pune, MH 411030 IN

Lakhan Maheshwari - 9479708081
Niharika Puri - 7408083129

Email id: admin@grotoy.com
support@grotoy.com

CIN : U01111PN2021PTC203496
www.grotoy.com

Compsoft Technologies

Providing a Complete Suite of IT Solutions

Certificate ID - 1CSTB8FSWD740

Date - 09/11/2021

Certificate of Internship

This is to certify that Ms Huzefa Unnisa (3GN17CS028) has done her Full Stack Web Development Internship in Compsoft Technologies, Rajaji Nagar, Bangalore, from 21st September 2021 to 23rd October 2021.

She has worked on a project titled Engineering SGPA/CGPA Calculator. This project was aimed at creating a cutting edge website for a client of ours, As part of the project, She designed functional web pages, Backend Databases to collect, store, sort data, by understanding the design briefs and client specifications that were provided in the Proposal.

During the internship, She demonstrated good design skills with a self-motivated attitude to learn new things. Her performance exceeded expectations and was able to complete the project successfully on time, We wish her all the best in her future endeavours.

Warm regards,

Dhanush S

(Project Manager, CST)

Compsoft Technologies
No. 363, 19th main road,
1st Block Rajajinagar Bangalore- 560010

www.compstechnologies.com

services@compstechnolgies.com

*Search Engine Optimisation
*Branding and Design
*Development
*Content Writing
*ML & Research
*Embedded Systems and IOT

ABSTRACT

Student admission problem is very important in educational institutions. This paper addresses machine learning models to predict the chance of a student to be admitted to a master's program. This will assist students to know in advance if they have a chance to get accepted. The machine learning models are multiple linear regression, logistic regression, and Multilayer Perceptron.

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PRINCIPAL
Guru Nanak Dev Engg. College, Bidar

Exposys
Data Labs

Certificate of Internship

TO WHOM IT MAY CONCERN

This is to certify that **Mr. SHAIK SAAD ULLAH** has completed internship programme on **"Cyber Security"** from 04.09.2021 to 03.10.2021.

He took keen interest in the work assigned and successfully completed it. During the period of internship we found him to be punctual, hardworking and inquisitive.

We wish him luck and success in all his future endeavours.

Y Vishnuvardhan

Chief Director

hr@exposysdata.com
www.exposysdata.com

ABSTRACT

The paper manages the reason for affirmation of vehicle speed subject to data from video record. In hypothetical part we portray the most vital procedures, to be unequivocal Gaussian blend models, DBSCAN, Kalman channel, Optical stream. The execution part is incorporated the planning game plan and the delineation of procedures for correspondence of individual areas. The end contains the primer of picked up video records utilizing various vehicles, various natures of driving and the vehicle position at the time of chronicle.

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Guru Nanak Dev Engg. College, Bidar

Compsoft Technologies

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Certificate ID - 1CSTB8FSWD176

Date - 09/11/2021

Certificate of Internship

This is to certify that **Ms Shruti Biradar (3GN17CS093)** has done her **Full Stack Web Development** Internship in **Compsoft Technologies**, Rajaji Nagar, Bangalore, from 21st September 2021 to 23rd October 2021.

She has worked on a project titled **Engineering SGPA/CGPA Calculator.** This project was aimed at creating a cutting edge website for a client of ours, As part of the project, She designed functional web pages, Backend Databases to collect, store, sort data, by understanding the design briefs and client specifications that were provided in the Proposal.

During the internship, She demonstrated good design skills with a self-motivated attitude to learn new things. Her performance exceeded expectations and was able to complete the project successfully on time, We wish her all the best in her future endeavours.

Warm regards,

Dhanush S

(Project Manager, CST)

PRINCIPAL
College, Bidar

Compsoft Technologies
No. 363, 19th main road,
1st Block Rajajinagar Bangalore- 560010

www.compstechnologies.com

services@compstechnolgies.com

*Search Engine Optimisation *Development *ML & Research

*Content Writing *Embedded Systems and IOT

ABSTRACT

Student admission problem is very important in educational institutions. This paper addresses machine learning models to predict the chance of a student to be admitted to a master's program. This will assist students to know in advance if they have a chance to get accepted. The machine learning models are multiple linear regression, logistic regression, and Multilayer Perceptron.

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PRINCIPAL
Guru Nanak Dev Engg. College, Bid-

INTERNSHIP CERTIFICATE

Compsoft Technologies

Providing a Complete Suite of IT Solutions

Certificate ID - 1CSTB8FSWD162

Date - 09/11/2021

Certificate of Internship

This is to certify that **Mr Zahoor Siddiqua (3GN17CS120)** has done his **Full Stack Web Development** Internship in **Compsoft Technologies**, Rajaji Nagar, Bangalore, from 21st September 2021 to 23rd October 2021.

He has worked on a project titled **Engineering SGPA/CGPA Calculator.** This project was aimed at creating a cutting edge website for a client of ours, As part of the project, He designed functional web pages, Backend Databases to collect, store, sort data, by understanding the design briefs and client specifications that were provided in the Proposal.

During the internship, He demonstrated good design skills with a self-motivated attitude to learn new things. His performance exceeded expectations and was able to complete the project successfully on time, We wish him all the best in his future endeavours.

Warm regards,

Dhanush S

(Project Manager, CST)

PRINCIPAL
New Engg. College, Bidar

Compsoft Technologies
No. 363, 19th main road,
1st Block Rajajinagar Bangalore- 560010

www.compstechnologies.com

services@compstechnolgies.com

*Search Engine Optimisation *Development *ML & Research

*Branding and Design *Content Writing *Embedded Systems and IOT

ABSTRACT

Student admission problem is very important in educational institutions. This paper addresses machine learning models to predict the chance of a student to be admitted to a master's program. This will assist students to know in advance if they have a chance to get accepted. The machine learning models are multiple linear regression, logistic regression, and Multilayer Perceptron.

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PRINCIPAL
Guru Nanak Dev Engg. College, Bidar

Reg. No : AAB9565

inventeron
nothing but smart..

INVENTERON TECHNOLOGIES AND BUSINESS SOLUTIONS LLP

CERTIFICATE OF INTERNSHIP

This is to certify that Mr/Ms. ASNA KAINATH AMAAN

has completed internship on DESIGN & DEVELOPMENT OF INTERNET OF THINGS

from 10th SEPT 2021 to 10th OCT 2021 successfully.

We wish this intern all the best for future endeavours.

For Inventeron Technologies And Business Solutions LLP

Managing Director

PRINCIPAL
Guru Nanak Dev Engg. College, Bidar

Managing Director

ARM CORTEX Processor Technology

IoT

Raspberry Pi

Java

www.inventeron.com

CERTIFICATE

OF COMPLETION

This is to certify that

MOHAMMED RUMAN KHAN

has successfully completed

INTERNSHIP Program of 30 days

on DATA SCIENCE (AI & ML , PYTHON)

technology offered by

Times Institute of Management & Technical Studies

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AICRA - All India Council for Robotics & Automation

15th DEC 2021
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PRINCIPAL
Nanak Dev Engg. College, Bidar

Program Head

ABSTRACT

Student admission problem is very important in educational institutions. This paper addresses machine learning models to predict the chance of a student to be admitted to a master's program. This will assist students to know in advance if they have a chance to get accepted. The machine learning models are multiple linear regression, logistic regression, and Multilayer Perceptron.

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PRINCIPAL
Guru Nanak Dev Engg. College, Bidar

VERZEO

Certificate of Internship

Mohd Zeeshan Khan

has successfully completed an Internship Program Azure Cloud Computing

from 01-09-2021 to 31-10-2021.

During this internship, the student was found to be dedicated, hardworking and intelligent.

T Nikhil

T.Nikhil
Academic head

Our internship completion certificates are verified and are recognized by eminent industries and universities all over the world.

Verified Certificate

Certificate ID: 625735210
Date: 21-02-2022

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Engg. College, Bidar

CERTIFICATE

OF COMPLETION

This is to certify that

NISHA

has successfully completed

INTERNSHIP Program of **30** days

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has successfully completed

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Program Head

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INTERNSHIP Program of **30** days

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has successfully completed

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has successfully completed

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This is to certify that

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has successfully completed

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This is to certify that

Saba shireen

has successfully completed

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CERTIFICATE

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This is to certify that

Sagal Singh Khanuja

has successfully completed

INTERNSHIP Program of **30** days

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This is to certify that

Saima

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SAKSHI K DOIJODE

has successfully completed

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on ____DATA SCIENCE (AI & ML , PYTHON)_____

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This is to certify that

SAMREEN FATIMA

has successfully completed

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CERTIFICATE
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This is to certify that

Sangamesh patil

has successfully completed

INTERNSHIP Program of **30** days

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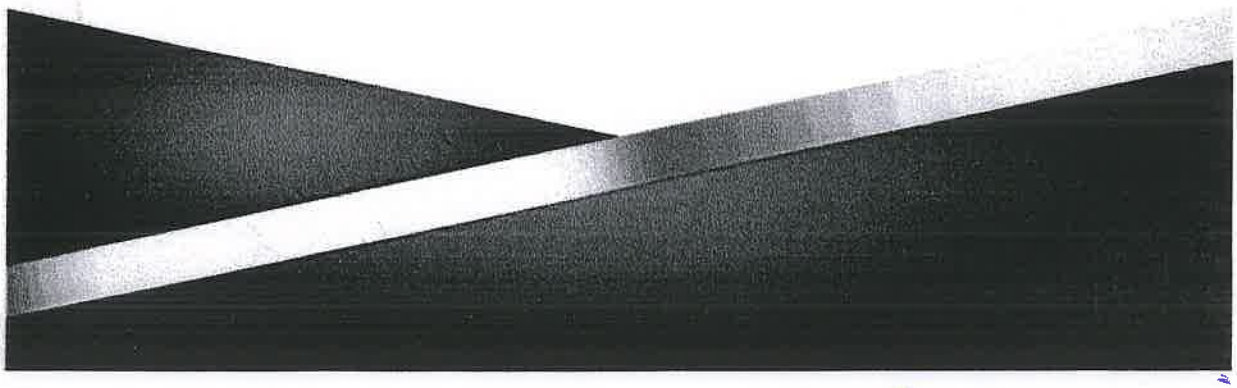

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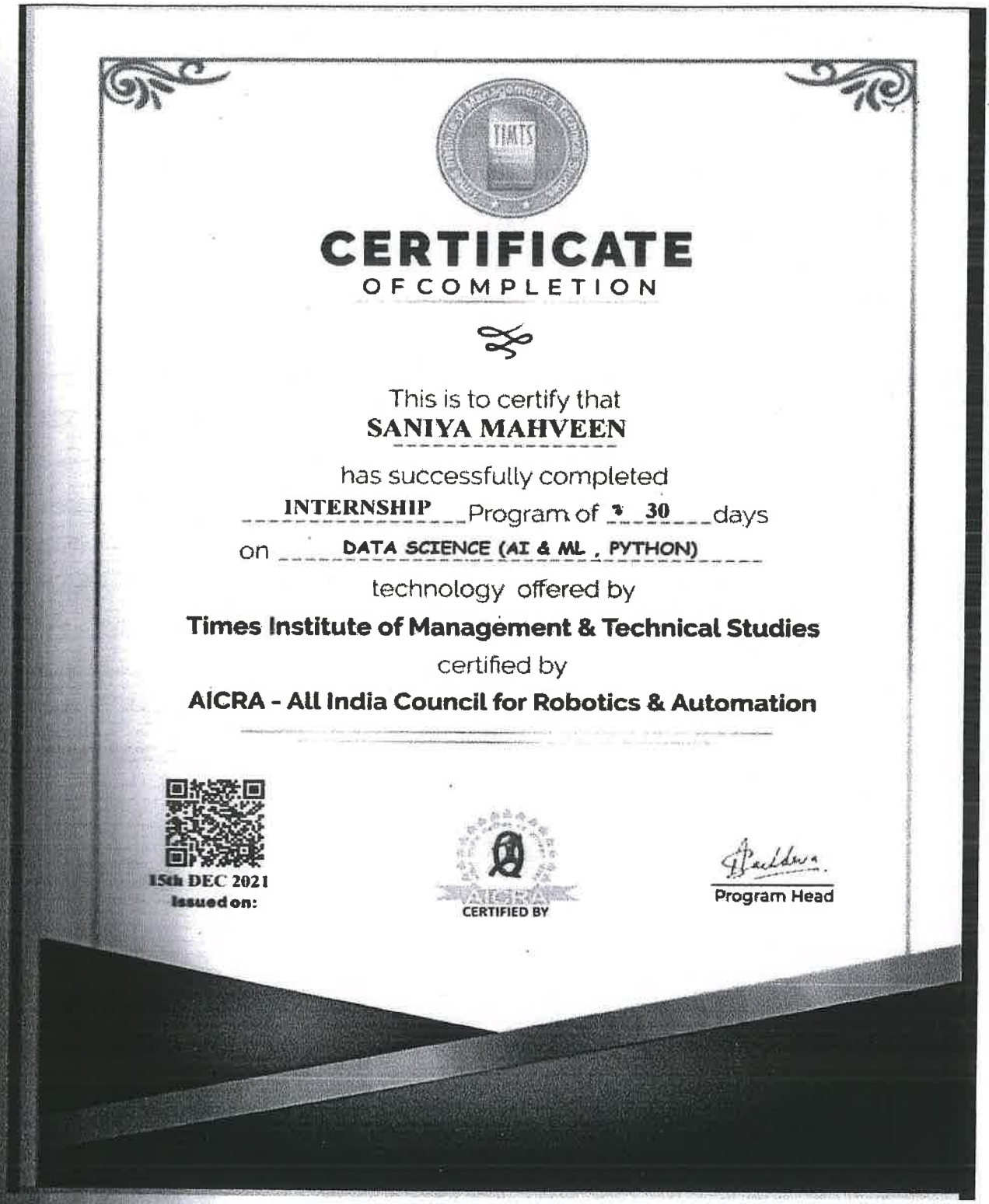
INTERNSHIP CERTIFICATE



CERTIFICATE

OF COMPLETION

This is to certify that

SANIYA MAHVEEN

has successfully completed

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College, Bidar

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This is to certify that

Sanjana

has successfully completed

INTERNSHIP Program of **30** days

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Guru Nanak Dev Engg. College, Bidar

Program Head

INTERNSHIP CERTIFICATE

This is to certify that

Savita

has undergone a 30 days internship training programme from

16/08/2021 to 11/10/2021.

In the department of Design and Development

Contriver, Bengaluru. Under the guidance of Vaishnavi S Ramu

and the grade awarded to the intern for the internship project is

Sanjay B

Chief Executive Officer

#startupindia

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Guru Nanak Dev Engg. College, Bidar

CONTRIVER

INTERNSHIP CERTIFICATE

This is to certify that

Shabasi

has undergone a 30 days internship training programme from 16/08/2021 to 11/10/2021.

In the department of Design and Development Contriver, Bengaluru. Under the guidance of Vaishnavi S Ramu and the grade awarded to the intern for the internship project is

A+

Sanjay B
Chief Executive Officer

#startupindia

PRINCIPAL
Guru Nanak Dev Engg. College, Bidar

CERTIFICATE

OF COMPLETION

This is to certify that

Shabista Mehrish

has successfully completed

INTERNSHIP Program of **30** days

on **DATA SCIENCE (AI & ML , PYTHON)**

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Program Head

PAL
College, Bidar

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OF COMPLETION

This is to certify that

SHAH PASHA

has successfully completed

INTERNSHIP Program of **30** days

on **DATA SCIENCE (AI & ML , PYTHON)**

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CERTIFICATE

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This is to certify that

Sharan Sabrawal

has successfully completed

INTERNSHIP Program of **30** days

on **DATA SCIENCE (AI & ML , PYTHON)**

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PRINCIPAL
Engg. College, Bidar

Program Head

iGeeks
Bridging Technology

Date: 02/09/2021

Internship Offer Letter

Dear Ms. Sheetal G (USN: 3GN18CS094),

In reference to your application, we are excited to inform you that you are selected for internship with **IGEEKS TECHNOLOGIES** based at Bangalore. Your internship is scheduled to commence from **03.09.2021 to 04.10.2021** .All of us our IGEEKS TECHNOLOGIES are excited that you will be joining our already competitive and fun loving team!

As such, your internship will include training/orientation on hands-on of some real world applications in your domain and focus primarily on learning and developing new skills and gaining a deeper understanding about concepts in your chosen domain.

The project details and technical platform will be shared with you once you complete the necessary formalities and submit the required documents. You will be assigned with an intern coordinator who will guide you through out your internship period and will be your point of contact for all your technical/non-technical queries.

As you will be receiving academic credit for this position, you will not be paid; additionally students do not receive benefits as part of the internship program.

You should report for internship at the following address:

IGEEKS TECHNOLOGIES
No.19, MN Complex, 2nd Floor, 2nd Cross, Sampige Road, Malleswaram, Bangalore-560003

Again congratulations and we look forward to working with you.

Yours sincerely,

For IGEEKS TECHNOLOGIES

Mr. Hari Babu Y.
Director

PRINCIPAL
Guru Nanak Dev Engg. College, Bidar

+91-7019-28-0372
info@igeekstechnologies.com
No: 19, MN Complex, 2nd Cross,
Sampige Main Road, Malleswaram
Bangalore- 560003
www.igeekstechnologies.com

ABSTRACT

Face detection and recognition from an image or a video is a popular topic in biometric research. Face recognition technology has widely attracted attention due to its enormous application value and market potential, such as real-time video surveillance system. It is widely acknowledged that the face recognition has played an important role in surveillance system as it doesn't need the object's co-operation. We design a real-time face recognition system based on IP camera and image set algorithm by way of OpenCV and Python programming development. The system includes three parts: Detection module, training module and recognition module.

PRINCIPAL
Guru Nanak Dev Engg. College, Bidar

CERTIFICATE

OF COMPLETION

This is to certify that

SHIVAMANGALA

has successfully completed

INTERNSHIP Program of **30** days

on **DATA SCIENCE (AI & ML , PYTHON)**

technology offered by

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Program Head

CERTIFICATE
OF COMPLETION

This is to certify that

SHRADHA PATIL

has successfully completed

INTERNSHIP Program of **30** days

on **DATA SCIENCE (AI & ML , PYTHON)**

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CERTIFIED BY

Program Head

PRINCIPAL
Dept. Engg. College, Bidar

INTERNSHIP CERTIFICATE

This is to certify that

Sheriya awadkar

has undergone a 30 days internship training programme from 16/08/2021 to 11/10/2021.

In the department of Design and Development Contriver, Bengaluru. Under the guidance of Vaishnavi S Ramu and the grade awarded to the intern for the internship project is

B+

PRINCIPAL
Guru Nanak Dev Engg. College, Bidar

Sanjay B
Chief Executive Officer

Ministry of MSME, Govt. of India

MAKE IN INDIA

#startupindia

DIPP25772

KR22A0005511

CONTRIVER

INTERNSHIP CERTIFICATE

This is to certify that

Shruti Suman

has undergone a 30 days internship training programme from 16/08/2021 to 11/10/2021.

In the department of Programming and Development Contriver, Bengaluru. Under the guidance of Tushar Punjabi and the grade awarded to the intern for the internship project is

B+

Sanjay B
Chief Executive Officer

Ministry of MSME, Govt. of India

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iGeeks
Bridging Technology

04/10/2021,
Bangalore.

Successful Internship Completion of Ms. SHWETA SONNA (USN: 3GN18CS099)

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Ms. SHWETA SONNA** of **Guru Nanak Dev Engineering College, Bidar** has successfully completed her internship with us from **03rd September 2021 to 04th October 2021**. She has shown a consistent progress and has been successful in working with our R&D Team in areas like **Machine Learning with Python.** She has been quite regular in attendance.

We found her Knowledgeable in programming with great interpersonal skills during her interactions with the project team as well as the HR team. She was duty-bound, punctual and hard working.

We also found her quite inquisitive on what she had to work and has performed well.

Her associations with us were fruitful and wish her Good Luck in all her future endeavors.

Best Regards

IGEEKS TECHNOLOGIES BANGALORE

Mr. Haribabu V
Director - HR

PRINCIPAL
Guru Nanak Dev Engg. College Bidar

+91-7019-28-0372

info@igeekstechnologies.com

No: 19, MN Complex, 2nd Cross,
Sampige Main Road, Malleswaram
Bangalore- 560003

ABSTACT

Decision taking is attained by probabilistic and predictive approaches developed by various machine learning algorithms. This paper discusses about logistic regression ad its mathematical representation. This paper adheres to logistic regression as a machine learning tool in order to actualize the predictive and probabilistic approaches to a given problem of loan approval prediction. Using logistic regression as a tool , this paper specifically delineates about whether or not loan for a set of records of an applicant will be approved. When beginning your educational path, it's important to first understand how to learn ML. We've broken the learning process into four areas of knowledge, with each area providing a foundational piece of the ML puzzle. To help you on your path, we've identified books, videos, and online courses that will uplevel your abilities, and prepare you to use ML for your projects. Start with our guided curriculums designed to increase your knowledge, or choose your own path by exploring our resource library.

PRINCIPAL
Guru Nanak Dev Engg. College, Bidar

iGeeks
Bridging Technology

04/10/2021,
Bangalore.

Successful Internship Completion of Ms. SHWETA VAIJINATH (USN: 3GN18CS100)

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Ms. SHWETA VAIJINATH** of **Guru Nanak Dev Engineering College, Bidar** has successfully completed her internship with us from **03rd September 2021 to 04th October 2021**. She has shown a consistent progress and has been successful in working with our R&D Team in areas like **Machine Learning with Python.** She has been quite regular in attendance.

We found her Knowledgeable in programming with great interpersonal skills during her interactions with the project team as well as the HR team. She was duty-bound, punctual and hard working.

We also found her quite inquisitive on what she had to work and has performed well.

Her associations with us were fruitful and wish her Good Luck in all her future endeavors.

Best Regards

IGEEKS TECHNOLOGIES BANGALORE

Mr. Haribabu V
Director - HR

+91-7019-28-0372

info@igeekstechnologies.com

No: 19, MN Complex, 2nd Cross,
Sampige Main Road, Malleswaram
Bangalore- 560003

www.igeekstechnologies.com

PRINCIPAL
Guru Nanak Dev Engg. College, Bidar

ABSTACT

Decision taking is attained by probabilistic and predictive approaches developed by various machine learning algorithms. This paper discusses about logistic regression ad its mathematical representation. This paper adheres to logistic regression as a machine learning tool in order to actualize the predictive and probabilistic approaches to a given problem of loan approval prediction. Using logistic regression as a tool , this paper specifically delineates about whether or not loan for a set of records of an applicant will be approved. When beginning your educational path, it's important to first understand how to learn ML. We've broken the learning process into four areas of knowledge, with each area providing a foundational piece of the ML puzzle. To help you on your path, we've identified books, videos, and online courses that will uplevel your abilities, and prepare you to use ML for your projects. Start with our guided curriculums designed to increase your knowledge, or choose your own path by exploring our resource library.

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INTERNSHIP CERTIFICATE

PRIYAS HUB

Date : 08-10-2021

TO WHOM IT MAY CONCERN

This is to certifv that MR.Siddalinga Manga a student of BE (Computer Science) Guru nanak Dev Engineering College , Bidar has successfully completed (Android Application Development) 01 (one) months (From 9th September 2021 to 08th October 2021) long internship programme at this company . During the period of his internship programme with us he was found punctual hardworking and inquisitive.

We Wish Him Every Success In Life

For Priyas Hub Private Limited

C. Surya

Authorized Signature

PRIYAS HUB PVT LTD| No.63B, 2nd Floor, Janakpuri 1st Street, Velachery, Chennai, Tamil Nadu-600042, India

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Guru Nanak Dev Engg. College, Bidar

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OF COMPLETION

This is to certify that

Sneha

has successfully completed

INTERNSHIP Program of **30** days

on **DATA SCIENCE (AI & ML , PYTHON)**

technology offered by

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Program Head

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SONY
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INTERNSHIP Program of 30 days
on DATA SCIENCE (AI & ML, PYTHON)
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Program Head

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Nanak Dev Engg. College, Bidar

INTERNSHIP CERTIFICATE

This is to certify that

Suluxshana

has undergone a 30 days internship training programme from 16/08/2021 to 11/10/2021.

In the department of Design and Development

Contriver, Bengaluru. Under the guidance of Vaishnavi S Ramu

and the grade awarded to the intern for the internship project is

A+

Sanjay B

Chief Executive Officer

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ABSTRACT

Project requirement definition requires a progressive elaboration approach. This approach starts with high-level definition of the object Scope, which sets the boundaries for areas within the organization that are anticipated to change. Next, the team expands on the scope statement by collaboratively uncovering the need statements to be solved for according to requirements. Finally, the team can drill down to a technical approach, finding appropriate solutions that satisfy the project needs.

Through our experience working with project teams, in many industries, on hundreds of projects, we recognize that although project managers may understand the theory for developing project requirements, they do not have viable tools, techniques, or processes for enabling project stakeholders to clearly define their needs and the expected outcomes for the project. On many projects, the requirements definition effort can take months or, in extreme cases, years to complete before any tangible benefits are realized by the project effort. In this case, it is not uncommon for the environment in which the project was originally established to have changed.

All too often, project teams dive into the solutions they want to implement before ever gaining alignment on and before fully understanding the underlying needs for which theyshould be solving. Many times project team members believe that they can save the team time by starting with a solution, rather than starting at the beginning of the project and defining the needs. These "silver bullet" solutions rarely work. In fact, they often result in project teams' implementing what appears, on the surface, to be a great solution, but what in reality is a solution that fails to address the true needs of the organization.

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CONTRIVER

INTERNSHIP CERTIFICATE

This is to certify that

Suma

has undergone a 30 days internship training programme from 16/08/2021 to 11/10/2021.

In the department of Programming and Development Contriver, Bengaluru. Under the guidance of Tusham Punjabi and the grade awarded to the intern for the internship project is

C+

Sanjay B
Chief Executive Office

PRINCIPAL
College, Bidar

CERTIFICATE
OF COMPLETION

This is to certify that

SUSHMA H

has successfully completed

INTERNSHIP Program of **30** days

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Program Head

ABSTRACT

Student admission problem is very important in educational institutions. This paper addresses machine learning models to predict the chance of a student to be admitted to a master's program. This will assist students to know in advance if they have a chance to get accepted. The machine learning models are multiple linear regression, logistic regression, and Multilayer Perceptron.

In this project, we will be using the Admission_predict dataset in csv format to predict the chances of students getting admission by a university based on several academic performance measurements. To yield the most accurate result, we will be going through several steps such as data preprocessing, t-test, feature selection, cross validation, model selection, etc. to train a linear regression model, make prediction and measure its performance.

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CERTIFICATE

OF COMPLETION

This is to certify that

TAMMANA NAGA VENKATA ROHIT

has successfully completed

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has successfully completed

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...lege, Bidar

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This is to certify that

Tufail Mohammed

has successfully completed

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Vajre

October 10th, 2021

TO WHOM SO EVER IT MAY CONCERN

We are pleased to inform that **Ms. Unsiya Maheen** D/O **Mohammad Lateef Uddin** student of **Gurunanak Dev Engineering College, Bidar, Karnataka** has successfully completed her **30 Days Internship** in Web Development Domain from **6th September, 2021** to **6th October, 2021** at **Vajre India Technologies Pvt. Ltd.**

During this internship, the intern was exposed to various activities and projects in **Web Development Domain.**

The intern was found extremely inquisitive and smart working. She has met the requirement of internship to fulfill the requirement of degree of BE from **Gurunanak Dev Engineering College, Bidar, Karnataka.** Each and every tasks provided were completed on time and the willingness to get into the depth of the subject was revealed.

Team Vajre India Technologies wishes all the best for future endeavors.

Saurabh Patel

(Saurabh Patel)
Authorized Signatory
Vajre India Technologies Pvt. Ltd.

Where Ideas Flourish
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Credential ID: VIT231220211618

CIN Number: U72900JH2020PTC015326

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ABSTRACT

Because of the increasing growth of the World Wide Web, many companies have created their own Web sites to advertise their products or services. This information that the companies create is accessible to more and more people since free Internet connection is available to the public. Therefore, there is tough competition between companies for informing the public about their own products. In order to get the attention of the public through the company's Web page, it is very important to design an attractive and easy to use site.

To design a site that is attractive and easy to use site requires some organization. There are many different combinations of Web page design that the developers can choose to use for their sites. However, there will be a design that is more suitable for a targeted group of audience. Therefore, before the process of designing, the developers have to fully understand the needs of their audience to choose the best choice of design.

In this report of the effective use of the different types of Web page layouts, we discussed about what determines the basic elements of a good page design. The basic elements include color contrast, text organization, font selection, style of a page, page size, graphics used, and consistency. All of these elements are very important to the design of the Web page. Therefore, the developers have to agree on all of the above issues before starting the design.

A good Web page layout is important to anyone who wants to create a Web page. The layout of a page directly affects the usability of a site. A better page layout can attract more visitors and keep old visitors. By attracting new visitors, the information can be spread faster and easier. More people will visit a well organized Web page.

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INTERNSHIP CERTIFICATE

This is to certify that

Vaishnavi Shinde

has undergone a 30 days internship training programme from 16/08/2021 to 11/10/2021.

In the department of Programming and Development Contriver, Bengaluru. Under the guidance of Tushar Punjabi and the grade awarded to the intern for the internship project is

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Sanjay B
Chief Executive Officer

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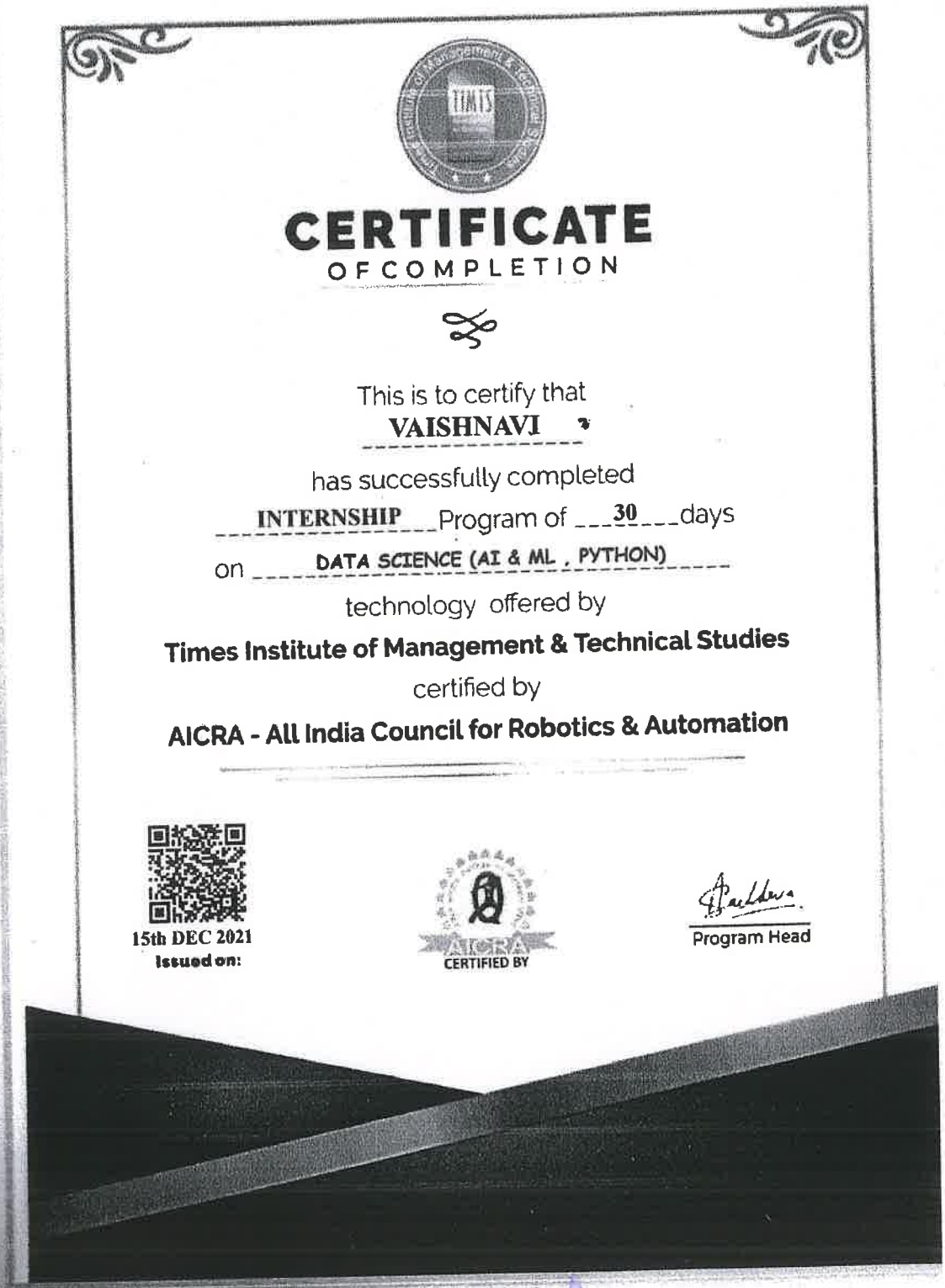
Scanned with CamScanner

Internship Certificate



CERTIFICATE

OF COMPLETION

This is to certify that

VAISHNAVI

has successfully completed

INTERNSHIP Program of **30** days

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This is to certify that

Vaishnavi Kathkam

has undergone a 30 days internship training programme from 16/08/2021 to 11/10/2021.

In the department of Programming and Development Contriver, Bengaluru. Under the guidance of Tushar Punjabi and the grade awarded to the intern for the internship project is

B+

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Sanjay B
Chief Executive Officer

Ministry of MSME, Govt. of India

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KR22A0005511

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INTERNSHIP CERTIFICATE

This is to certify that

Vinayashree

has undergone a 30 days internship training programme from 16/08/2021 to 11/10/2021.

In the department of Programming and Development Contriver, Bengaluru. Under the guidance of Tushar Punjabi and the grade awarded to the intern for the internship project is

B

Sanjay B
Chief Executive Officer

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CERTIFICATE

OF COMPLETION

This is to certify that

YUVRAJ

has successfully completed

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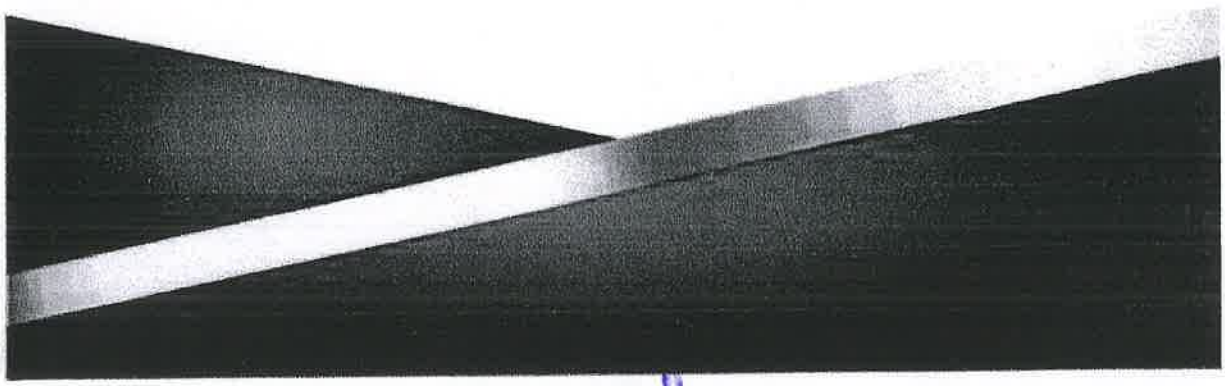

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CERTIFICATE
OF COMPLETION

This is to certify that

Malkapure Omkar

has successfully completed

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080-48669257
contact@x-workz.in
www.x-workz.in

CERTIFICATE OF INTERNSHIP

This is to certify that **Mr. Sangamesh Houshetty [3GN17CS076],** a student of **Guru Nanak Dev Engineering College – Bidar** has undergone training from 01/10/2021 to 10/11/2021. He/she had majorly involved in the activity of Web Technologies (HTML, CSS, Java Script and Boot Strap), He/she has a comprehensive understanding of the projects and has excellent analytical skills.

He/she is undoubtedly the type of worker that has the potential for the great success at the all level. His/hers natural abilities, combined with their work ethic and ability to evolve academically, are recipes for success in the future.

We wish all the success in his/her carrier.

Yours Sincerely,
Vinay Kumar PV
HR Manager
X-workZ ODC

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