CRITERION 1- CURRICULAR ASPECTS			
1.3 Curriculum Enrichment			
1.3.3 Percentage of students undertaking project work/ field work/internship (Data for the latest completed academic year 2022-2023.			
Program name	**Program Code**	**List of students undertaking project work/ field work/Internship**	**Page No**
B.E.CSE	104	ABDUL JALIL S	10
B.E.CSE	104	ABINAYA A	134
B.E.CSE	104	AFHRAN NISHA A	14
B.E.CSE	104	AJAYKUMAR K	132
B.E.CSE	104	AJAYKUMAR M	18
B.E.CSE	104	AKASH T	22
B.E.CSE	104	ANANDAKUMAR A	26
B.E.CSE	104	ANANDARAJ N M	121
B.E.CSE	104	ANBARASAN P	132
B.E.CSE	104	ANBARASU S	132
B.E.CSE	104	ANBULINGAM E	132
B.E.CSE	104	APSARA JASMINE S	132
B.E.CSE	104	ARASUTHANGAPANDI M	132
B.E.CSE	104	ARUSHA BANU A	132
B.E.CSE	104	BABY SHALINI C	132
B.E.CSE	104	BALA ANANDHAN R	132
B.E.CSE	104	BAVITHRA C	30
B.E.CSE	104	BELLARMINE JOSHI V	132
B.E.CSE	104	BHARATHI S	132
B.E.CSE	104	BHUVANESHWARAN S	132
B.E.CSE	104	BRAMMA S	34
B.E.CSE	104	DEEPIKA V	134
B.E.CSE	104	DEVA DHARSHINI N	38
B.E.CSE	104	DEVADHARSHINI R S	132
B.E.CSE	104	DHANUSH M	132
B.E.CSE	104	DHARANI T	132
B.E.CSE	104	DHARINISH K	132
B.E.CSE	104	DHARSHANAPRIYA K	134
B.E.CSE	104	DHARSHINI M	132
B.E.CSE	104	DILZATHBEGAM.B	134
B.E.CSE	104	DIVYA S	42
B.E.CSE	104	DURGA GNANA DEVI S	132
B.E.CSE	104	FAHMITHA SIRIN N	132
B.E.CSE	104	FROSSEKHAN M	132
B.E.CSE	104	GANTHA RAJA M	132

B.E.CSE	104	GEETHANJALI S	134
B.E.CSE	104	GOKULAPRIYAN R	132
B.E.CSE	104	GUHAN P	46
B.E.CSE	104	GUNA SEAKAR J	50
B.E.CSE	104	HARI DEEVAGAN M	46
B.E.CSE	104	HARI VIGNESH K	122
B.E.CSE	104	HARISH T	132
B.E.CSE	104	HIFAYA THAQFEEN M	54
B.E.CSE	104	INDHUMATHI V	58
B.E.CSE	104	JANANI R	62
B.E.CSE	104	JAYASURYA A	132
B.E.CSE	104	JEGANASH BEGAM.N	132
B.E.CSE	104	JERON ROBINSON T	134
B.E.CSE	104	JOSHUVA BASKARAN M	134
B.E.CSE	104	JOTHI MANI P	132
B.E.CSE	104	JOTHIPRAKASH M	132
B.E.CSE	104	K.DHANDEESWARAN	129
B.E.CSE	104	KABILESH K	134
B.E.CSE	104	KALEESWARAN S	123
B.E.CSE	104	KARTHIK K	91
B.E.CSE	104	KARTHIKEYAN D K	132
B.E.CSE	104	KARTHIKEYAN M	132
B.E.CSE	104	KARTHIKEYAN.M	134
B.E.CSE	104	KAVIARASAN C	134
B.E.CSE	104	KEERTHI HARAN R	132
B.E.CSE	104	KEERTHI S	134
B.E.CSE	104	KISHORE KUMAR.A	128
B.E.CSE	104	KOWSALYA M	134
B.E.CSE	104	KRISHNA KUMAR T	132
B.E.CSE	104	LAKSHMIPATHY K	134
B.E.CSE	104	LEO T	92
B.E.CSE	104	MADHAN T	133
B.E.CSE	104	MADHESH G	133
B.E.CSE	104	MADHUMITHA J	133
B.E.CSE	104	MANGALA DHARSINI R	38
B.E.CSE	104	MANOJ KUMAR T	46
B.E.CSE	104	MATHIVANAN V	124
B.E.CSE	104	MOHAMED RIBAK B	22
B.E.CSE	104	MONICA R	66
B.E.CSE	104	MUTHU KUMAR P	46
B.E.CSE	104	MUTHULAKSHMI M	134
B.E.CSE	104	NAFEELA NASRIN S	134
B.E.CSE	104	NANDHINI S	54

B.E.CSE	104	NATCHATHIRA M	133
B.E.CSE	104	NAVEEN K	134
B.E.CSE	104	NAVEEN KUMAR S	18
B.E.CSE	104	NAVEEN S	133
B.E.CSE	104	NIVETHA K	134
B.E.CSE	104	PALANIKUMAR V	134
B.E.CSE	104	PAUL SANTHOSH KUMAR J	70
B.E.CSE	104	PAVITHRA J	133
B.E.CSE	104	PHAVANESWAR K	133
B.E.CSE	104	PONNALAGU N	134
B.E.CSE	104	POORNIMA DEVI P	42
B.E.CSE	104	PRADEEP RAJ R S	134
B.E.CSE	104	PRANOV M	133
B.E.CSE	104	PRAVEEN N	134
B.E.CSE	104	PRAVEEN T	22
B.E.CSE	104	PRIYADHARSHINI M	134
B.E.CSE	104	RAGUL R	133
B.E.CSE	104	RAJESH SHARMA R	134
B.E.CSE	104	RATHIS KANNA R	133
B.E.CSE	104	ROOBALA V	133
B.E.CSE	104	SABARISHAN S	93
B.E.CSE	104	SAHULHAMEED U	133
B.E.CSE	104	SAI PRASANTHY N S	74
B.E.CSE	104	SALINI S	134
B.E.CSE	104	SANJAY H	134
B.E.CSE	104	SANKARADINESH A	133
B.E.CSE	104	SANTHOSH.P.A	99
B.E.CSE	104	SANTHOSH PRAKASH M	78
B.E.CSE	104	SARANYA R	82
B.E.CSE	104	SARAVANA PANDI P	94
B.E.CSE	104	SARAVANAKUMAR T	96
B.E.CSE	104	SATHYA M	86
B.E.CSE	104	SELVAMBIKAI N	86
B.E.CSE	104	SELVANJALI P	62
B.E.CSE	104	SHABARIKANTH GK	134
B.E.CSE	104	SHAJITHA BEGUM M	66
B.E.CSE	104	SHAJITHA YASMIN N	134
B.E.CSE	104	SHANMUGAPRIYA V	133
B.E.CSE	104	SHARUMATHI P	42
B.E.CSE	104	SHEEBA S	133
B.E.CSE	104	SHEEBA.V	133
B.E.CSE	104	SHEIK ABDUL BASITH S	133
B.E.CSE	104	SHRIHARINI V	133

B.E.CSE	104	SHRINIDHI G	134
B.E.CSE	104	SIBIDHARANI K	133
B.E.CSE	104	SIRAJUDEEN N	133
B.E.CSE	104	SIVA KUMAR R	133
B.E.CSE	104	SIVA SUBRAMANIAN N	133
B.E.CSE	104	SIVAMANI VIGNESH D	134
B.E.CSE	104	SIVAPRIYA R	58
B.E.CSE	104	SOUNDHARYA V	30
B.E.CSE	104	SOWMIYA T	135
B.E.CSE	104	SRI SUDHARSANA LAKSHMI .D	133
B.E.CSE	104	SRINIVASH A	10
B.E.CSE	104	SRIPRADEEP M	135
B.E.CSE	104	SRIVATHS KARTHIC G	18
B.E.CSE	104	SUBBULAKSHMI T	135
B.E.CSE	104	SUBHASHINI K	62
B.E.CSE	104	SUDHARSAN G	135
B.E.CSE	104	SUJIT RAGHAV MM	135
B.E.CSE	104	SUJITHA P	38
B.E.CSE	104	SUMITHA V	133
B.E.CSE	104	SURESH KANNAN.M	133
B.E.CSE	104	SURYA K	10
B.E.CSE	104	SURYAPRAKASH S	133
B.E.CSE	104	SUSMITHA N	133
B.E.CSE	104	SWATHI M	135
B.E.CSE	104	THARVINRAJA S	97
B.E.CSE	104	THESHAN BANU S	133
B.E.CSE	104	THILAGAVATHY V	82
B.E.CSE	104	THIRISHA P	82
B.E.CSE	104	THIRUNAVUKKARASAR T	70
B.E.CSE	104	THIYAGARAJAN S	70
B.E.CSE	104	VAISHALI S	54
B.E.CSE	104	VENKTRAMAN M	126
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B.E.CSE	104	VINOTH A	98
B.E.CSE	104	YUVANESHKUMAR K	135
B.E.CSE	104	YUVASHRI A	133

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
STUDENT'S PROJECT (2022-2023)

Table of CAY [2022 – 2023] VIII Sem Main Project

Batch No.	Register No.	Name of Student	Title of the Project	Area of Specialization	Type of Project (Real-Time Application, Research, Product, Case Study, Cost-Effective)	Relevance (Environment, Safety, Ethics, Cost, Standards)	Name of the Guide	Contribution / Achievements / Research Output	Matching with stated POs, PSOs	
									POs	PSOs
1	920819104001	Abdul Jalil S	Authenticated ID Provider for Migrant Workers	APP Development	Research	Environment, Safety	Mr.Arockia Irudayaraja	Application based System using App development	1,2,3, 4,5, 6, 7,8,9, 10,11, 12	1,2,3
	920819104041	Srinivash A								
	920819104045	Surya K								
	Impact Analysis: Students are able to apply knowledge of App Development in the Authenticated ID Provider									
2.	920819104002	Afhran Nisha A	Diabetes Prediction using Machine Learning	Machine Learning	Real-Time Application	Environment	Mrs.J.Prisca Mary	Application based System using machine Learning	1,2,3, 4,5, 6, 7,8,9, 10,11, 12	1,2,3
	Impact Analysis: Students are able to apply knowledge of Machine learning in Diabetes Prediction									
3	920819104003	Ajaykumar M	Digitalization of Hospital Management System	APP Development	Real –Time Application	Cost Effective	Mr.Arockia Irudayaraja	Application based System using App	1,2,3, 4,5, 6, 7,8,9, 10,11,	1,2,3
	920819104025	Naveen Kumar S								

	920819104042	Srivaths Karthic G						development	12	
Impact Analysis: Students are able to apply knowledge of Application Development for Digitalization in Managemnet Sytstem										
4	920819104004 920819104020 920819104028	Akash T Mohamed Ribak B Praveen T	Online Vehicle Rental System	Web Application	Application	Ethics	Mr.P.Manivel Pandian	Application based System using Web development	1,2,3, 4,5, 6, 7,8,9, 10,11, 12	1,2,3
Impact Analysis: Students are able to apply knowledge of Web Application in vehicle rental service										
5	920819104005	Anandakumar A	Crime Rate Prediction Using K-Means Algorithm	Machine Learning	Real-Time Application	Safety	Dr.K.Ramanan	Application based System using machine Learning	1,2,3, 4,5, 6, 7,8,9, 10,11, 12	1,2,3
Impact Analysis: Students are able to apply knowledge of Machine learning in Crime Rate Prediction										
6	920819104006 920819104040	Bavithra C Soundharya V	Rural Healthcare Language Translator	Deep Learning	Real-Time Application	Environment	Dr.M.Jenifer	Application based System using Deep Learning	1,2,3, 4,5, 6, 7,8,9, 10,11, 12	1,2,3
Impact Analysis: Students are able to apply knowledge of Deep Learning in Language Translator for Rural HealthCare										
7	920819104007	Bramma S	Emergency Vehicle Service / Repairing on Highway using Android Application	APP Development	Real – Time Application	Safety	Mr.P.Manivel Pandian	Application based System using App development	1,2,3, 4,5, 6, 7,8,9, 10,11, 12	1,2,3
Impact Analysis: Students are able to apply knowledge of App Development in Vehicle Service on Highway										
8	920819104008 920819104018 920819104044	Deva Dharshini N Mangala Dharsini R Sujitha P	Accident Detection and Alert System	IOT	Real – Time Application	Safety	Dr.M.Jenifer	Application based System using IOT	1,2,3, 4,5, 6, 7,8,9, 10,11, 12	1,2,3
Impact Analysis: Students are able to apply knowledge of IoT for Accident Detection and Alert System										

Batch No.	Register No.	Name of Student	Title of the Project	Area of Specialization	Type of Project (Real-Time Application, Research, Product, Case Study, Cost-Effective)	Relevance (Environment, Safety, Ethics, Cost, Standards)	Name of the Guide	Contribution / Achievements / Research Output	Matching with stated POs, PSOs	
									POs	PSOs
9	920819104009	Divya S	Android Based healthcare Prediction using Data Mining	APP Development	Real – Time Application	Safety	Mrs.C.Kalpana	Application based System using App development	1,2,3, 4,5, 6, 7,8,9, 10,11, 12	1,2,3
	920819104027	Poornima Devi P								
	920819104037	Sharumathi P								
	Impact Analysis: Students are able to apply knowledge of App Development in Healthcare Prediction Using Data Mining									
10	920819104011	Guhan P Hari Deevagan M	Real Time Security System for ATM user Authentication	AI	Real – Time Application	Safety	Mrs.J.Prisca Mary	Application based System using AI	1,2,3, 4,5, 6, 7,8,9, 10,11, 12	1,2,3
	920819104013									
Impact Analysis: Students are able to apply knowledge of Artifical Intelligence in Real Time Security System										
11	920819104012	Guna Seakar J	Fuel Level Indicator Monitoring using IOT	IOT	Real – Time Application	Environment, Safety,	Mrs.C.Kalpana	Application based System using IOT	1,2,3, 4,5, 6, 7,8,9, 10,11, 12	1,2,3
	920819104019	Manojkuma r T								
	920819104022	Muthu Kumar P								
Impact Analysis: Students are able to apply knowledge of IOT in Fuel Level Indicator										
12	920819104014	Hifaya Thaqfeen M	GSM Based LPG Detection and Prevention System	IOT	Real – Time Application	Safety	Dr.K.Ramanan	Application based System using IOT	1,2,3, 4,5, 6, 7,8,9, 10,11, 12	1,2,3
	920819104024	Nandhini S								
	920819104050	Vaishali S								
Impact Analysis: Students are able to apply knowledge of IOT in GSM based LPG Detection and Prevention										

13	920819104015 920819104038	Indhumathi V Sivapriya R	Automatic Helmet Detection using AI	Artifical Intelligence	Real – Time Application	Environment, Safety	Mrs.M.Kalarani	Application based System using AI	1,2,3, 4,5, 6, 7,8,9, 10,11, 12	1,2,3
	Impact Analysis: Students are able to apply knowledge of Artifical Intelligence in Automatic Helmet Detection									
14	920819104016 920819104035	Janani R Selvanjali P	Inventory Management System using JSP	Cloud Computing	Real – Time Application	Standards	Dr.M.Jenifer	Application based System using cloud computing	1,2,3, 4,5, 6, 7,8,9, 10,11, 12	1,2,3
	Impact Analysis: Students are able to apply knowledge of Cloud Computing in Inventory Management System									
15	920819104021 920819104036	Monica R Shajitha Begum M	Virtual Purchasing System Using Vending Machines & QR Codes	APP Developme nt	Real – Time Application	Cost	Mrs.S.Ummugul thum Natchiar	Application based System using App developmen t	1,2,3, 4,5, 6, 7,8,9, 10,11, 12	1,2,3
	Impact Analysis: Students are able to apply knowledge of App Development in Virtual Purchasing System									
16	920819104026 920819104048 920819104049	Paul Santhosh Kumar J Thirunavuk karasar T Thiyagaraja n S	Surviallance system using Machine learning	Machine Learning	Real – Time Application	Safety	Mrs.S.Ummugul thum Natchiar	Application based System using machine Learning	1,2,3, 4,5, 6, 7,8,9, 10,11, 12	1,2,3
	Impact Analysis: Students are able to apply knowledge of Machine Learning in Surviallance system									
17	920819104030	Sai Prasanthy N S	A Rebust Chaos-Based Techniques for Medical Image Encryption	Cryptograp hy	Real – Time Application	Environment, Safety	Mrs.K.Rajalaksh mi	Application based System using Cryptograp hy	1,2,3, 4,5, 6, 7,8,9, 10,11, 12	1,2, 3
	Impact Analysis: Students are able to apply knowledge of Cryptography in Medical Image Encryption									
18	920819104031	Santhosh Prakash M	Driver Drowsiness Monitoring system visual behavior Machine	Machine Learning	Real – Time Application	Environment	Dr.K.Ramanan	Application based System using	1,2,3, 4,5, 6, 7,8,9, 10,11,	1,2, 3

			learning					machine Learning	12	
	Impact Analysis: Students are able to apply knowledge of Machine learning in Visual Behavior of Driver Drowsiness									
19	920819104032 920819104046 920819104047	Saranya R Thilagavathy V Thirisha P	Cardiovascular disease detection using deep learning	Deep Learning	Real – Time Application	Safety	Mrs.M.Santhana Lakshmi	Application based System using deep Learning	1,2,3, 4,5, 6, 7,8,9, 10,11, 12	1,2, 3
	Impact Analysis: Students are able to apply knowledge of Deep Learning to detect Cardiovascular disease									
20	920819104033 920819104034	Sathya M Selvambikai N	Android APP Development for Women Safety using with Contact Synchronization	APP Developmen t	Real – Time Application	Safety	Mrs.K.Rajalakshmi	Application based System using App developmen t	1,2,3, 4,5, 6, 7,8,9, 10,11, 12	1,2, 3
	Impact Analysis: Students are able to apply knowledge of App developemnet in woman safety using contact Synchronization									

PROJECT CO-ORDINATOR

HOD-CSE

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AUTHENTICATED ID PROVIDERS FOR MIGRANT WORKERS

A PROJECT REPORT

Submitted by

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ABDUL JALIL.S	(920819104001)
SURYA.K	(920819104045)

in partial fulfillment for the award of the degree

of

BACHELOR OF ENGINEERING

in

COMPUTER SCIENCE AND ENGINEERING

NPR COLLEGE OF ENGINEERING & TECHNOLOGY,

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MAY 2023

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BONAFIDE CERTIFICATE

Certified that this project report **"AUTHENTICATED ID PROVIDERS FOR MIGRANT WORKERS"** is the bonafide work of **"SRINIVASH.A (920819104041), ABDUL JALIL.S (920819104001), SURYA.K (920819104045)"** who carried out the project work under my supervision.

17/5/23

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Submitted for the ANNA UNIVERSITY viva-voce Examination held on 17.05.23 at NPR College of Engineering & Technology, Natham.

17/5/23

INTERNAL EXAMINER

17/5/23

EXTERNAL EXAMINER

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ABSTRACT

Greater population density in metropolitan areas than in other locations increases the chance of criminal behavior. Businesses operating in these areas face a lot of difficulties as a result since they must be careful about the people they hire. A single person with a criminal history can endanger the firm, endanger the reputation of the organization, and endanger the safety of both customers and staff. Background checks are even more important in urban areas because of the large number of job applicants. Before making a job offer, companies must verify that prospective workers have a spotless background. Criminal history, work history, verification of schooling, and reference checks are all possible additions to background checks. Employers can use this information to make educated conclusions about which candidates are most suited for a given position. As part of this project's implementation of the authentication process for security reasons, the administrator will generate unique identification numbers for both job seekers and employers. Using these unique identification numbers, both parties will be able to access the details, which will also be stored in the database using ECC encryption.

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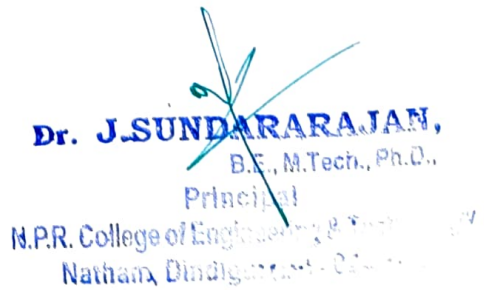
CHAPTER 11

CONCLUSION AND FUTURE ENHANCEMENT

In Conclusion, utilising state-of-the-art technology and encryption can speed the process of conducting background checks and verifying identities, which would save time and minimise errors. Information would be gathered and automatically verified by this system from a variety of sources, such as criminal record databases, employment histories, and educational institutions. The system would also introduce a reliable and secure way to verify an individual's identity using unique numbers created for both job applicants and employers. Each person's identity number would be unique and challenging to fabricate or steal because it would be securely maintained in a database employing ECC encryption. Overall, this approach would increase the effectiveness and security of identity verification and background checks, which would be advantageous to both employers and job seekers. With the deployment of such a system, the hiring procedure would become more effective, safe, and trustworthy, enabling companies to make more knowledgeable hiring decisions and contributing to the development of a more trustworthy workforce.

FUTURE ENHANCEMENT

Future research could concentrate on improving system security by investigating cutting-edge technologies like blockchain and biometrics.



DIABETES PREDICTION USING MACHINE LEARNING

A PROJECT REPORT

Submitted by

AFHRAN NISHA A (920819104002)

in partial fulfillment for the award of the degree of

BACHELOR OF ENGINEERING

in

COMPUTER SCIENCE AND ENGINEERING

NPR COLLEGE OF ENGINEERING & TECHNOLOGY

NATHAM,DINDIGUL.

ANNA UNIVERSITY :: CHENNAI 600 025

MAY 2023

ANNA UNIVERSITY : CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report titled " **DIABETES PREDICTION USING MACHINE LEARNING** " is the bonafide work of "**AFHRAN NISHA A (920819104002)** " Who carried out the project work under my supervision.

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EXTERNAL EXAMINER

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ABSTRACT

Diabetes is a chronic disease with the potential to cause a worldwide health care crisis. According to International Diabetes Federation 382 million people are living with diabetes across the whole world. By 2035, this will be doubled as 592 million. Diabetes is a disease caused due to the increase level of blood glucose. This high blood glucose produces the symptoms of frequent urination, increased thirst, and increased hunger. Diabetes is a one of the leading cause of blindness, kidney failure, amputations, heart failure and stroke. When we eat, our body turns food into sugars, or glucose. At that point, our pancreas is supposed to release insulin. Insulin serves as a key to open our cells, to allow the glucose to enter and allow us to use the glucose for energy. But with diabetes, this system does not work. Type 1 and type 2 diabetes are the most common forms of the disease, but there are also other kinds, such as gestational diabetes, which occurs during pregnancy, as well as other forms. Machine learning is an emerging scientific field in data science dealing with the ways in which machines learn from experience. The aim of this project is to develop a system which can perform early prediction of diabetes for a patient with a higher accuracy by using machine learning techniques. Here the Support Vector Machine Algorithm is used.

CHAPTER 11

CONCLUSION

In conclusion, the application of machine learning techniques such as SVM algorithm for diabetes prediction has great potential in healthcare, as it can assist healthcare providers in early diagnosis and timely management of diabetes, leadingto improved patient outcomes. The use of Support Vector Machine (SVM) algorithm for diabetes prediction through machine learning has shown promising results. SVM algorithm can effectively classify diabetes patients from non-diabetic individuals based on several input variables such as age, BMI, glucose levels, and other health details. Overall, With the growing availability of healthcare data, the use of SVM and other machine learning algorithms will continue to play a vital role in predicting and managing diabetes.

FUTURE WORK

The research has not been completed yet. Only the data collection and machine learning model has been implemented in the Android environment. Prediction Module has implemented in the Android application. Features like recommendation system will be added to the Android application in the future. Preprocessing, statistical analysis, development of the machine learning model have been completed. Current machine learning models for diabetes prediction have shown promising results, but there is still room for improvement. Researchers can explore new approaches to feature selection, data preprocessing, and model training to improve the accuracy of predictions. Diabetes datasets often suffer from class imbalance, where there are more samples of one class (e.g. non-diabetic) than the other (e.g. diabetic). This can lead to biased models that perform well on non-diabetic samples but poorly on diabetic samples. Future work can explore methods to address data imbalance and improve model performance on minority class samples. Machine

DIGITALIZATION OF HOSPITAL MANAGEMENT SYSTEM

A PROJECT REPORT

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ABSTRACT

In most developing countries, provision of basic preventive, promotive and curative services is a major concern of the Government. With growing population and advancement in the medical technology and increasing expectation of the people especially for quality curative care, it has now become imperative to provide quality health care services through the established institutions.

However, these services have not been successful in gaining the faith and confidence of the people because of lack of specialists, facilities and accountability, along with the paucity of resources and non-involvement of the community. Hospital Management System is a simple yet effective management structure. This system acts for the hospitals to manage the affairs of the hospital.

HMS is free to prescribe, generate and use the functioning and maintaining the quality of services.

The project Hospital Management system includes registration of patients, storing their details into the system. The software has the facility to give a unique id for every patient and stores the details of every patient.

The Hospital Management System can be entered using a username and password. It is accessible either by an administrator .Only they can add data into the database. The data can be retrieved easily. The interface is very user-friendly. The data are well protected for personal use and make the data processing very fast.

CHAPTER - 13

CONCLUSION AND FUTURE ENHANCEMENT

This proposed system paves a new path in the medical industry by bringing in new way of managing hospitals by reducing labour work and digitalizing the process of functioning of the hospital. This eases the process of the hospital administration by reducing the workload of managing the appointments manually. This also reduces the amount of paper and such materials that are 'used up while the process of booking an appointment and delivery of scan reports. This further increases the efficiency of the managing process of the hospital system. As a part of the future enhancement that is to brought to this system includes implementation of the digital consulting and remote consulting options which would reduce the patients travelling expenses and further increase the productivity of the hospital management.

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ONLINE VEHICLE RENTAL SYSTEM

A PROJECT REPORT

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ABSTRACT

This is an online car rental store that has listings of various cars along with their features. It also consists of car rental registration. This system allows user to book car (rental) through online. The visitor who visits the system must register himself by filling up personal details. After registration user can login to the system with his username and password in order to access the system. User can check various car listing and can view each car rental price. In this project the vehicle owner can add the car details like car name, categories, rental price, model etc. The user can register and login the system using his/her user's name and password. After login process the user can search the car information like car name, categories, rental price, model etc updated by admin. After searching all information, the user can book (rental) the particular car with id proof and driving license. The booking details are viewed by admin only.

CHAPTER – 11

CONCLUSION

This project entitled as "Online Vehicle Rental System" has been developed to satisfy all the proposed requirements. The process of recording details about car rental is simpler and easier. The system reduces the possibility of errors to a great extent and maintains the data in an efficient manner. User friendliness is the unique feature of this system. The system generates the reports as and when required. The system is highly interactive and flexible for further enhancement. The coding is done in a simplified and easy to understandable manner so that other team trying to enhance the project can do so without facing much difficulty. The documentation will also assist in the process as it has also been carried out in a simplified and concise way. Vehicle Rental business has emerged with a new goody compared to the past experience where every activity concerning car rental business is limited to a physical location only. Even though the physical location has not been totally eradicated; the nature of functions and how these functions are achieved has been reshaped by the power of internet. Nowadays, customers can Booking cars online, rent car online, and have the car brought to their door step once the customer is a registered member or go to the office to pick the car.

The Online Rental System has offered an advantage to both customers as well as Vehicle owners to efficiently and effectively manage the business and satisfies customer's need at the click of a button. The depicted system vanquishes all the imperfections of the present structure and brings a period of dynamic structure which is brisk, profitable and particularly adaptable. It will be verifiably useful for the PC customers. Our structure will make the User experience smoother and specifically, enchanting. We encourage our customers to come and make use our system and moreover share significant information which will help with improving our structure.

CRIME RATE PREDICTION AND ANALYSIS USING K – MEANS CLUSTERING ALGORITHM

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ABSTRACT

In our daily life, the collection and analysis of crime-related data is uncertain from a security perspective. Crime rate forecasting and analysis is a way of identifying and analyzing crime patterns in crime data contained in a crime database. Our system predicts what criminal activity occurs in everyday life in various parts of the world. Using machine learning and data mining algorithms, we can predict the information in the dataset. This process helps solve the crime faster. Instead of focusing on why the crime happened, background locations are also provided. We use K-means clustering algorithm and linear regression algorithm to improve criminology. It allows analysis of crime data based on monthly and weekly data. Here we have an approachbetween computer science and criminal justice to develop a data mining procedure that can help solve crimes faster. Instead of focusing on causes of crime occurrence like criminal background of offender, political enmity etc. we are focusing mainly on crime factors of each day.

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CHAPTER – 11

CONCLUSION

Machine learning technology has made it easier to find correlations and patterns in various crime data. The work of this project mainly focuses on predicting the type of crime. Using the concept of machine learning, we built a model using a training data set that underwent data cleaning and data transformation with a linear regression algorithm. Model predicts type of crime Data visualization helps analyze material and predict crime. Since we applied the data mining clustering technique to crime analysis, we can also perform other data mining techniques such as classification.

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RURAL HEALTHCARE LANGUAGE TRANSLATION

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ABSTRACT

Effective communication is vital in the healthcare sector to ensure accurate diagnosis, proper treatment, and improved patient outcomes. With the increasing global demand for communication, such a system would be immensely useful in breaking down language barriers and promoting cross-cultural understanding. This project aims to develop an application for English speech to Tamil speech translation using google translator and audio system techniques. The application will utilize deep learning algorithms to transcribe and translate spoken English into Tamil speech in real-time. The application will be integrated into a user-friendly interface that allows users to speak into the application and receive an instant translation in Tamil. This technology has the potential to revolutionize cross-cultural communication and open up new avenues for dialogue, business, and friendship between English and Tamil-speaking communities. Language barriers can hinder effective communication between healthcare providers and patients in rural areas, leading to inadequate healthcare delivery and patient outcomes. Rural healthcare language translation services can address this issue by providing accurate and culturally sensitive language interpretation for patients who speak different languages.

CHAPTER -11

CONCLUSION AND FUTURE ENCHANCEMENT

Language translation services can play a critical role in improving healthcare access and outcomes for rural populations. By providing interpretation and translation services, healthcare providers can overcome language barriers and ensure that patients receive quality care that meets their specific needs.

Language translation can help to reduce communication barriers and improve patient-provider relationships, resulting in better health outcomes and higher patient satisfaction. Moreover, it can help to increase the efficiency of healthcare delivery by reducing the time and resources required to provide care.

This project is now based on the desktop application but in future it will be developed or created as an app named android application. This android application system is an easy, fast, and efficient language translation. And it can be performed simply with a little knowledge of the android phone. This This web based system is time saving, work load reduced information available at time and it provide security for the data. Mobile application language translation helps its users (students) to vote for their representatives.

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MOBILE APPLICATION FOR MECHANIC SERVICE MANAGEMENT SYSTEM

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ABSTRACT

It is not very unusual for anyone to have a break down with their car at least once. Now, if the break down happens in a familiar place or a well-populated one, it is easy to inquire about a service centre or a mechanic who can come to our rescue. But many of these unfortunate incidents like highway journey it happens in the most possible remote locations without a soul nearby to help. It is in these situations our proposed app is very useful to people. The project presents an approach to solve the problem in vehicles repairing / services in emergency situations at highway. Collecting the information reports from all vehicle service / repairing shops in separate area / district. In that emergency period user's location and the problem is send then nearby shops mechanic quickly come to this place and solve the problem and also available to payment for this service via card / cash. The project includes some algorithm to assign geo graphical (Navigation) algorithm used on particular lace will be track. In our daily life we don't know when and where we get stuck on the road and we don't know where we are and we also won't be able to find the nearest mechanic location. This project targets to develop an android application that will help the user to register through installing the application and can get access to the nearest mechanics location and contact him personally this uses the internet and messages permissions to go on with the application.

CHAPTER – 11

CONCLUSION

Car being an important part of our daily life needs to be regularly serviced for efficient working. Automation with IOT makes the whole experience of car servicing smart and fast. Above proposed system not only manages real-time service of our car but also provides necessary data and predictions to help us determine the time for next service and approximate cost. Though this system adds to the servicing cost, but it prevents service centers from charging more and makes customer aware about all the modulations done on car. All in all, this system saves time and money of customer. Technologies like IoT and RPA has fundamentally altered the way we live and work. It has made our life easier. This system increases the efficiency of our car and also reduces customer's effort at the same time in highways.

The proposed paper shows the flow, structure and working of the E-Mechanic Service EMS is user friendly i.e. easy to use in highways. It is free of cost on android store. Thus, it is time a time saving as well as cost efficient application. So, we can conclude that the proposed system can be used to reduce human efforts and luxuriate human lives, hand in hand, with the modern technology.

ACCIDENT DETECTION AND ALERT SYSTEM

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ABSTRACT

Accident detection using an Android application is an innovative and efficient approach to identify and report road accidents in real-time. The application uses various sensors and algorithms to detect the occurrence of an accident, such as sudden changes in acceleration, orientation, and speed. Once an accident is detected, the application automatically sends an alert to the emergency services, providing the precise location of the accident and other vital information. Accident detection and alerting the respective contacts using an Android mobile application is an innovative and potentially life-saving technology. This application will detect whether the accident occurred or not by analyzing the movement of the phone using the accelerometer, or by detecting a user input signal such as pressing the volume button or by clicking the help button on the application. Once an accident is detected, the app can alert emergency services and pre-selected contacts with the user's location and any relevant information. The implementation of this system requires the integration of several technologies, such as GPS, accelerometer, gyroscope, and Bluetooth. Once an accident is detected, the application will send an alert to emergency services automatically with the user's location, any relevant medical information, and an option for the user to contact emergency services directly.

CHAPTER 10

CONCLUSION AND FUTURE ENHANCEMENT

10.1 Overview

The use of an android mobile application for accident detection and informing emergency services and pre-selected contacts can significantly improve response times and reduce the severity of injuries resulting from accidents. This application can detect accidents through shaking the phone, pressing the volume button, or clicking a help button on the application and can transmit real-time location information to emergency services and pre-selected contacts. The application's user registration module allows users to create a personalized account, while the enroll emergency contact module allows users to enroll their emergency contacts, including family members, friends, or healthcare professionals. The alert feature module triggers an alert to emergency services and pre-selected contacts when an accident is detected, while the notification module sends notifications to the user and emergency contacts when an accident is detected or when the alert feature is activated. The application's feedback module allows users to provide feedback on the application's performance and reporting any issues or bugs. Finally, the application's user education module provides education and training to users on how to use the application effectively.

10.2 Future Enhancement

This mobile application is helpful in future when any problem arises in travelling or any kind of situations. As the technology emerges it is possible to upgrade the system and can be adaptable to desired environment because it is based on object oriented design, any further changes can be easily adaptable. Based on the future security issues, security can be improved using emerging technologies.

SMART HEALTH CARE PREDICTION APP USING DATAMINING ALGORITHM

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ABSTRACT

The Smart Health Consulting is an application which helps users to get medical consulting related to the symptoms of the given diseases. Application has been done using Android as front end tool and SQLite to store data. This project is simple and easy to handle. This software provides easy retrieval and fast data storage.This application contains an administration module in which the administrator can register the new diseases and its symptoms. Then the administrator can specify which doctor is available to treat for the specified diseases. It also includes the medicine that cures the disease. The administrator can also give the hospital details in which the doctors work and treatments available for the specified disease. A separate login for the doctor is available for the registered doctors. In doctor login the particular doctor can view his information and can edit the information such as name, address and mobile number which is already registered. Then the end user can register in the application and can login the system. Users has the option to edit the information and a search disease option. In search option, the user needs to give the symptoms of the disease and on pressing the search disease button, the system displays a list of diseases for the given symptom, and the medicine and hospital and the particular doctor available to treat the disease. A separate option to search for the doctor is available into which the user needs to enter the doctor name and the application lists out the address, mobile, and the specialization of the doctor. This application is user friendly in nature and well suited for mobile application. I assume that the developed project gives the best support and gives a lot of help to the public in finding the disease.

CHAPTER 11

CONCLUSION AND FUTURE ENHANCEMENT

This program can be used by all patients or their family members who need help in emergencies situation the system will useful . It is very easy to handle and easy to use all persons. The structure of our system is simple and the maintenance process of our system is simple. Therefore, the intended goal was achieved successfully.

Information and Communication Technologies (ICTs) are commonly using in healthcare organizations worldwide. The android operating system (AOS) based electronic devices such as Smartphones and computer tablets are extensively used for many purposes like instant messaging, gaming, word processing, Internet and download number of applications online. A rapid growth of android phones has enabled to replace PC's software and other licensed software development technologies. There are different kinds of healthcare applications developed in android Smart phones which help patients and their caregivers to reduce time and cost efficiency. In this research work, an application is developed that locates the nearest hospital about five km radius with the desired medical specialist. The nearest position of hospitals is calculated with a built-in feature of Global Positioning System (GPS) in Smart phones and finds the route from their current location through Google Map application Program Interfaces (API). An informative survey of different hospitals in Karachi is conducted to obtain an accurate list of doctors available in each hospital. With the help of this application, a patient can find the nearest hospital according to specialized consultant availability. A comprehensive profile of doctor and hospital is available in the application including the website, mailing addresses and contact numbers.

REAL TIME SECURITY SYSTEM FOR ATM USER AUTHENTICATION

A PROJECT REPORT

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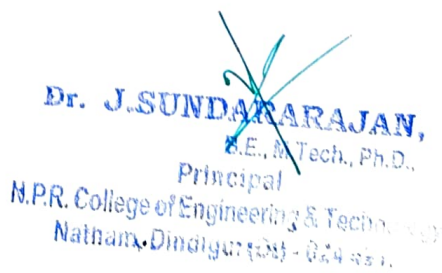

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ABSTRACT

ATM or Automated Teller Machines are widely used by people nowadays. Performing cash withdrawal transaction with ATM is increasing day by day. ATM is very important device throughout the world. The existing conventional ATM is vulnerable to crimes because of the rapid technology development. A total of 270,000 reports have been reported regarding debit card fraud and this was the most reported form of identity theft in 2021. A secure and efficient ATM is needed to increase the overall experience, usability, and convenience of the transaction at the ATM. In today's computer vision is advancing at a breakneck pace. The recent progress in biometric identification techniques, including finger printing, retina scanning, and facial recognition has made a great effort to rescue the unsafe situation at the ATM. Specifically, the goal of this project is to give a computer vision method to solve the security risk associated with accessing ATM machines. This project proposes an automatic teller machine security model that uses electronic facial recognition using Deep Convolutional Neural Network(DCNN). If this technology becomes widely used, faces would be protected as well as their accounts. Face Verification Clickbait Link will be generated and sent to bank account holder to verify the identity of unauthorized user through some dedicated artificial intelligent agents, for remote certification.

CHAPTER 11

CONCLUSION

11.1 Conclusion

Biometrics as means of identifying and authenticating account owners at the Automated Teller Machines gives the needed and much anticipated solution to the problem of illegal transactions. In this project, we have developed to proffer a solution to the much-dreaded issue of fraudulent transactions through Automated Teller Machine by biometrics and Unknown Face Forwarder that can be made possible only when the account holder is physically or far present. Thus, it eliminates cases of illegal transactions at the ATM points without the knowledge of the authentic owner. Using a biometric feature for identification is strong and it is further fortified when another is used at authentication level. The ATM security design incorporates the possible proxy usage of the existing security tools (such as ATM Card) and information (such as PIN) into the existing ATM security mechanisms. It involves, on real-time basis, the bank account owner in all the available and accessible transactions

FUEL LEVEL INDICATOR MONITORING SYSTEM USING IOT

A PROJECT REPORT

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ABSTRACT

The Fuel Level Indicator Monitoring System using IoT is a system that allows for remote monitoring of fuel levels in tanks and provides alerts to users when the fuel level drops below a certain threshold. The system provides real- time fuel level data, which can be accessed from anywhere using a web or mobile application. The alert system can notify users via SMS or email when the fuel level drops below a set level, helping to prevent fuel theft and ensure that the tanks are regularly refilled. This system has the potential to save time and money for businesses that rely on fuel tanks and reducing the risk of downtime due to fuel shortages.

This Project presents the development of a Petrol Tank Fuel Level Indicator Monitoring System using IoT technology. The system uses an Arduino microcontroller, a float sensor to measure the fuel level, and an LCD screen to display the level. The data collected from the system is published to Thingspeak using a Node MCU. The system continuously monitors the fuel level and sends alerts when the level drops below a certain threshold. This helps to prevent the fuel from running out and avoiding any unexpected inconvenience. The system also allows the user to monitor the fuel level remotely through the internet, making it convenient to keep track of the fuel level from anywhere at any time. The system's implementation is simple and cost-effective, making it suitable for both personal and commercial use.

CHAPTER – 11

CONCLUSION

In conclusion, the Fuel Level Monitoring & Alert System using IoT is a valuable and relevant solution for businesses in various industries that rely on fuel for their operations. The system offers real-time monitoring of fuel levels, alerts for fuel shortages or overfills, remote monitoring, and integration with other IoT technologies, making it a cost-effective, efficient, and scalable solution for fuel level monitoring and management.

The proposed system can help reduce the need for manual monitoring, improve the accuracy and timeliness of fuel level readings, prevent fuel theft, reduce the risk of fuel shortages and downtime, and optimize fuel consumption and cost management. By providing real-time insights into fuel usage and management, the system can help businesses make data-driven decisions and improve their overall operational efficiency.

Overall, the Fuel Level Monitoring & Alert System using IoT is a valuable innovation that can help businesses save time, money, and resources while improving their fuel management practices.

GSM BASED LPG LEAKAGE DETECTION AND PREVENTION SYSTEM

A PROJECT REPORT

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ABSTRACT

The Internet of things (IoT) is the system of gadgets, vehicles, and home machines that contain hardware, programming, actuators, and network which enables these things to interface, collaborate and trade information. IoT includes broadening Internet network past standard device, for example, work areas, workstations, cell phones and tablets, to any scope of generally stupid or non-web empowered physical device and ordinary articles. Installed with innovation, these gadgets can convey and connect over the Internet, and they can be remotely observed and controlled. Not with standing causing flame and blast dangers, holes canslaughter vegetation, including huge trees, and may discharge amazing ozone harming substances to the environment. Keywords: IOT, MQ5 sensor, Arduino module, GSM networks.

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CHAPTER 11

CONCLUSION AND FUTURE WORK

This work sets out the problem of LPG leakages that have resulted innumerous fatal casualties as well as damages to properties worth billions of dollars. As such a device that is capable of detecting such leakage sand shutting off the gas supply was designed and simulated successfully with the aid of Proteus. The device is able to sense the leakage of LPG through a highly sensitiveMQ-6 gas sensor and with the aid of a microcontroller activate a buzzer which buzzes to alert anyone nearby of leakage. An SMS with information "LPG Leakage Detected" is sent from the SIM900A GSM Module as a backup to alert the appropriate authority of leakage. Also, supply is shut down by the solenoid value unit under one minute to avoid wastage and possible accident.

Future Work

In the future implementation we are going to provide voice implementation that will guide the user by audible sounds. Further it can be provided with emergency alerts in which we can send messages to the close ones . For this function GPS tracking should be implemented in this plug-in device.

This design should be taken up, funded and implemented by any individual who has an interest in the project, as it has a great potential of mitigating against accidents associated LPG leakage and a weighing scale be incorporated into the design to measure the amount of gas used or left in the gas tank or cylinder.

In this proposed model we want to achieve two aspects:

1. To design an embedded system:

In this we are going to use the AVR microcontroller that control all the module and things.

2. Accident avoiding feature:

AUTOMATIC HELMET DETECTION USING AI

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ABSTRACT

There is a need for intelligent transportation infrastructure, and technologies are now available to assist us. Artificial Intelligence (in particular, deep learning) could aid in a variety of ways to improve the efficiency of present systems. The capacity to effectively detect and classify cars is critical to the success of intelligent systems. These devices could play a critical role in assisting us in getting around in the near future in a country like India, which has a rapidly rising population and limited space. The goal of this initiative is to solve a few problems that are particularly important in India. Many countries require the utilization of helmets by motorcyclists, however numerous individuals neglect to comply with the law for different reasons. We present the advancement of a framework utilizing profound convolutional neural networks, (CNNs) for discovering bikers who are disregarding helmet rules. The system involves motorcycle, detection, helmet, vs. no-helmet, classification, and method counting using YOLO algorithm. Convolutional neural network with sequential CNN model is implementing for number plate detection process. CNN classification model proposes for classify the number plate in image and extract the user details. Then calculate the fine amount. Finally making SMS services to send alert the users too preventing motorcycle accident and paid within two days. If user not paid means, automatically block the number plate and send alert. Finally, admin renewal the number plate of the user, after received the fine amount. We assess the framework as far as accuracy and speed.

CHAPTER 11

11. CONCLUSION AND FUTURE ENHANCEMENT

11.1 Conclusion

In this project we have described a framework for automatic detection of motorcycle riders without helmet from real time camera capturing and automatic retrieval of vehicle license number plate for such motorcyclists. The use of Convolutional Neural Networks (CNN) and transfer learning will help in achieving good accuracy for detection of motorcyclists not wearing helmets. But, only detection of such motorcyclists is not sufficient for taking action against them. So, the system will also recognize the number plates of their motorcycles and store them. In this project, we have used the YOLO v3 for identification of real time person with and without helmets.

YOLO is suitable to detect the single object from the image, YOLO has a limitation that if there are multiple objects in a single cell then YOLO is not suitable to all objects. And also accomplished deep learning based automatic license plate recognition model for Indian road users. Results denote that the preferred technique perform better than the existing methods by far in energizing datasets of Indian fonts with high irregularities, containing Number plates and successfully created a custom dataset of Indian font variants Successfully trained the model with Sequential CNN algorithm. The stored number plates can be then used by Transport Office to get information about the motorcyclists from their database of licensed vehicles. Concerned motorcyclists can then be penalized.

11.2 Future Work

In future, we can extend the framework analyse various types of traffic violations and with embedded with hardware system. We can also predict the traffic misbehaving in various types' vehicles and also use other deep learning algorithms to improve the accuracy.

INVENTORY MANAGEMENT SYSTEM

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ABSTRACT

The website hosts the fashion dresses to be sold in the online. Every Seller can register their information and their clothe details in the site to sale using this application. Administrator creates the products types and items and uploads it on the site to sale. This system allows the small scale clothe merchants and familiar middle class clothe merchants can register their products to trade their clothes through this online application. Using this portal, customers who are surrounding the particular city can purchase clothes online from specified shops which are nearby their places and which are familiar shops in the city. So customers get the delivery of clothe items from the specified shop quickly. All the uploaded products in the site are available online. Any user visits the site can view the products and can purchase online. The products are displayed category wise so that the search of the product is easy. Users can select the products from the site and can add in their account. Then on finishing the purchase of items from the site, user needs to confirm the products purchased. Then the order is send to the site.

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CHAPTER – 11

CONCLUSION AND FUTURE ENHANCEMENT

This online shopping helps the user to shop fashion clothing for men, women and children through online. So that the user is not needed to leave his/her house for shopping. The invention of the new system is an achievement since it satisfies the requirements of the users. Therefore it is time saving and easier to access. Small clothe merchants surrounding the city can register their products for online sales and getting benefits to both clothe shop merchants and customers who are in the same place.

Even some small clothe merchants sell the high quality of clothe with affordable price, they don't get popular and they could not get the right revenue from their business. These kinds of small clothe merchants surrounding the city can register their products for online sales and getting benefits to both clothe shop merchants and customers who are in the same place. In future, it can be implemented securely with help of wallet code or quick response code to verify and approve legitimate and honest users only. Based on friend recommendation, customer's can decide to select the shop and purchase the items from recommended shops only.

The future enhancement of our project is to make an online payment process ,like adding the UPI, Banking, etc.

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VIRTUAL PURCHASING SYSTEM USING VENDING MACHINES AND QR CODES

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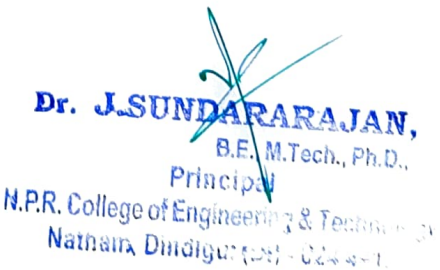
ABSTRACT

Consumption has become an essential part of human life's basic routine activities, and machine-based sales plays a vital role in today's busy life of our society. Machines are now dominating modern life style, and as vending machines are one of the machine-based sales, so they are affecting human-machine relation in a positive way. Vending machines provides edible and non-edible items such as snacks, beverages, tickets, and coffee. VMs are available in office buildings, shopping malls, metro/bus stations, airports, universities, traffic and uptown area etc. So, its benefits include no need of human energy reduction in man power as it doesn't need vendor, flexibility in time, and time saving as distance between human and VMs is less. Mechanism and methods used in the development of VMs has been changed over a period of time to make it more secure and more adaptive to the human requirements. Establishment of cashless vending system has become essential to overcome the security threats / issues incorporated with cash billing system in vending machines. Development and installation of this system will allow consumers to use the RFID cards already purchased and using in other payment areas. RFID technology has introduced the novel cashless payment system, and replaced the traditional cash-based methods in vending machines. Additional features added to RFID VMs are security and reduction of man power. Security is achieved by making VMs password protected and a notification SMS generated and sent to customer using GSM module after each successful vend to make them more effective.

CHAPTER 11

CONCLUSION AND FUTURE ENHANCEMENT

Vending Machine is a publicly available purchasing system that holds various products. To purchase the products the buyer hast to touch the panel in the Vending Machine. In the post pandemic era people are hesitated to touch the public products. Hereby connecting the users mobile phone and the vending machine this situation can be avoided. In the post-epidemic era, Smart vending machines will become more and more popular. Public service-based vending machines reduce human contact, But it also needs to be better designed for disinfection, Increase security features. The intelligent vending machine designed in this study is based on the product sales. Intelligent vending machine interface design based on user experience, using color to distinguish different categories, more eye-striking and easier to operate that can be designed as an application and viewed in user's mobile phone itself. As a future enhancement this project can be made with the voice assistant in which the products can be bought by simply saying its name.



SMART DOOR SURVILANCE SYSTEM USING MACHINE LEARNING

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ANNA UNIVERSITY::CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report "**SMART DOOR SURVILANCE SYSTEM USING MACHINE LEARNING**" is the bonafide work of "**THIYAGARAJAN S (920819104049),THIRUNAVUKKARASAR(920819104048),PAUL SANTHOSH KUMAR(920819104026),**who carried out the project work under my supervision.

17/5/2023

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Submitted for ANNA UNIVERSITY viva voice examination held on 17.5.2023 at NPR college of Engineering and Technology, Natham.

17/5/2023

INTERNAL EXAMINER

17/5/23

EXTERNAL EXAMINER

NPR COLLEGE OF ENGG. & TECHNOLOGY NATHAM

Dr. J.SUNDARARAJAN,
B.E., M.Tech., Ph.D.,
Principal
N.P.R. College of Engineering & Technology
Natham, Dindigul (Dt) - 624 401.

ABSTRACT

The visitor management is a modern world problem with its application a numerous fraud, privacy issues, etc. can be easily detected and avoided. The visitor management system using face recognition is one of the most secure systems even better than CCTV cameras and wake through gate methods. The main focus that has to made in project is whether the cost of the system compiles with the extent of the project. The scale of operations and the security requirements differ from place to place for instance domestic usage and industrial usage. Visitor Management System is mostly used by corporate, schools, colleges now but with great advancements can extent its scope to railway stations, airports, toll stations, etc. Almost all businesses with huge facilities are incorporating Visitor Management Systems in their overall security and is constantly growing a constant pace. Face recognition visitors' management system (FRVMS) is proposed to enhance the security of home to identify the unknown persons without manual interventions. Centralize system enable managing and monitoring process become more efficient. Cost of development is also taking into consideration as this system is not requiring any extra devices. Face recognition is using web camera that is already embedded with the computer. The detected detailed features are compared with the family of face data stored in the database of the monitoring system, and security is cancelled in case of a member, while an alarm notification is displayed to the user in case of an outsider. Then the user wear face mask means, specify the alarm to remove the mask to recognize the facial features. We can implement the framework using deep learning algorithm named as Convolutional neural network and experiment this system in real time environments.

CHAPTER 11

CONCLUSION AND FUTURE ENHANCEMENT

11.1 CONCLUSION

In conclusion, smart door security using face recognition is a powerful and convenient technology that enhances the security and convenience of modern homes and buildings. Smart door security using face recognition offers several benefits compared to traditional key-based systems. One major advantage is that face recognition systems are more secure and difficult to bypass. Unlike keys, which can be lost or stolen, a person's face cannot be easily replicated or duplicated, making it a reliable form of identification. Additionally, face recognition systems offer greater convenience since there is no need to carry or keep track of keys. This can be especially useful for busy individuals who have their hands full or are prone to misplacing items. Another advantage of smart door security using face recognition is that it allows for greater control and customization of access. The system can be programmed to recognize specific faces and grant access only to those individuals, allowing for greater control over who is allowed into the building. The system can also be configured to restrict access during certain times of the day or to specific areas of the building, making it easier to manage access and increase security.

11.2 FUTURE WORK

There are several potential future enhancements that could be made to smart door security using face recognition technology. One potential enhancement is the integration of artificial intelligence (AI) and machine learning (ML) algorithms to improve the accuracy and reliability of the system. These technologies could be used to continuously learn and adapt to new faces and environmental conditions, such as changes in lighting or facial expressions. Another potential enhancement is the integration of multi-factor authentication, which combines face recognition with other forms of identification, such as fingerprint or voice recognition.

A ROBUST CHAOS BASED-TECHNIQUE FOR MEDICAL IMAGE ENCRYPTION

A PROJECT REPORT

Submitted by

SAI PRASANTHY.N. S (920819104030)

in partial fulfillment for the award of the degree

of

BACHELOR OF ENGINEERING

IN

COMPUTER SCIENCE AND ENGINEERING

NPR COLLEGE OF ENGINEERING AND TECHNOLOGY,
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ANNA UNIVERSITY:: CHENNAI 600 025

MAY 2023

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BONAFIDE CERTIFICATE

Certified that this project report **"A ROBUST CHAOS BASED - TECHNIQUE FOR MEDICAL IMAGE ENCRYPTION"** is the bonafide work of **"SAI PRASANTHY.N.S (920819104030)"** who carried out the project work under my supervision.

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16/5/2023

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16/5/23

EXTERNAL EXAMINER

NPR COLLEGE OF ENGG & TECHNOLOGY * NATHAM

Dr. J.SUNDARARAJAN, B.E., M.Tech., Ph.D.
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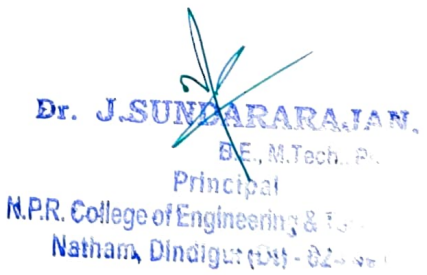
Natham, Dindigul (Dt) - 624 401.

ABSTRACT

Transmission and storage of medical data using cloud-based Internet-of-health-systems (IoHS) necessitate important prerequisites, such as secrecy, legitimacy, and integrity. The system is developed encryption/decryption scheme that can be applied in e-healthcare, or IoHS, for the protection of medical images. Cloud is a new technology that is developed to reduce the storage area and cost of storage. E-Health Care having same images share a common storage area and that images can be fetched whenever needed. The proposed system explores the multiple medical images are encrypted and decrypted. The medical data manager encrypts the medical images and stored in cloud increasing exponentially day by day. An Admin generate a secret key for each and every image. And Health care provider will decrypt the encrypted images from cloud. The only way to reduce the time for medical department is multiple medical images encrypted and decrypted at a time and elimination of repeated images in cloud.



CHAPTER 11

CONCLUSION AND FUTURE ENHANCEMENT

I conclude that, medical image encryption scheme that can integrated in cloud-based internet-of-health systems (IoHS). An input parameter besides the medical image and the secret key unlike those encryption algorithms based on one-time keys. The latter has the advantage that it permits controlling the encrypted image without affecting the secret keys. Thus, my system possesses multiple advantage, including improved encryption quality, performance, and robustness; and also secure and speed encryption of multiple images using key. This has been documented using various experiments and various test medical images. Additional companion with state-of-the art encryption scheme using benchmark images (both color and greyscale) highlighted the high effectiveness and robustness of the proposed scheme to prevent many existing cryptography attacks and cryptanalysis techniques.

For our future work, we will investigate how to achieve the same functionalities using another algorithm with the same security guarantee without independent key servers.

Dr. J.SUNDARARAJAN,
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DRIVER DROWSINESS MONITORING SYSTEM USING VISUAL BEHAVIOUR & MACHINE LEARNING

A PROJECT REPORT

Submitted by

SANTHOSH PRAKASH. M (920819104031)

in partial fulfillment for the award of degree

of

BACHELOR OF ENGINEERING

in

COMPUTER SCIENCE AND ENGINEERING

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ANNA UNIVERSITY::CHENNAI 600 025

MAY 2023

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BONAFIDE CERTIFICATE

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ABSTRACT

In our day to day life, many of the accidents can occur due to the drowsiness of the driver. It is one of the cause to lead road accidents. To prevent accidents, we proposed a system to detect the drowsiness of driver by measuring the eye aspect ratio, mouth yawning and alert the driver. It will save the life a person. In this, the driver fatigue is continuously captured by webcam. And we use image processing technique to focus on face and eyes of the driver. Our model extract the face of driver and detect the eye blinking. If the eye aspect ratio is reduced, then the system alerts the driver with a warning sound. We are using SVM pre-trained drowsiness model and then using Euclidean distance function we are continuously checking or predicting EYES and MOUTH distance closer to drowsiness, if distance is closer to drowsiness then application will alert driver.

CHAPTER – 11

CONCLUSION

In the present study, a research team developed an automatic system for driver drowsiness detection. The focus of the study was to create a low-cost, real-time monitoring system that relies on visual behavior analysis and machine learning techniques. The system utilizes features such as eye ratio and mouth aspect ratio, which are calculated using live video captured by a webcam.

By analyzing the visual behavior of the driver, the system can assess drowsiness levels and issue appropriate warnings or alarms to mitigate the risks associated with drowsy driving. The use of machine learning techniques allows the system to learn patterns and make accurate predictions based on the calculated features.

One notable aspect of this system is that it works with synthetic information that has been precisely created. This implies that the researchers likely used synthesized or simulated data to train and test the system, ensuring its effectiveness before deployment. The advantage of synthetic data is that it allows for controlled experiments and extensive testing without the need for physical hardware or real-world data acquisition.

Furthermore, the implemented system is designed to be portable, as it does not rely on specific hardware components. This portability enables the system to be easily deployed in various settings and on different devices, making it accessible for wider adoption and practical usage.

Overall, the developed system offers an affordable and real-time solution for driver drowsiness detection, utilizing visual behavior analysis and machine learning techniques. Its implementation without hardware and reliance on synthetic information contribute to its portability and ease of deployment.

CARDIOVASCULAR DISEASE DETECTION SYSTEM USING DEEP LEARNING

A PROJECT REPORT

Submitted by

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THILAGAVATHY.V	(920819104046)
THIRISHA.P	(920819104047)

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ABSTRACT

The Heart is one of the most vital structures in the human body. It is the centre of the circulatory system. Heart disease is a main life intimidating disease that can origin either death or a severe long-term disability. However, there is lack of effective tools to discover hidden relationships and trends in e-health data. Medical diagnosis is a complex task and plays a dynamic role in saving human lives so it needs to be executed accurately and efficiently. A suitable and precise computer based automated decision support system is required to reduce cost for achieving clinical tests. Health analytics have been proposed using ML to predict accurate patient data analysis. The data produced from health care industry is not mined. Data mining techniques can be used to build an intelligent model in medical field using data sets which involves risk factor of patients. The knowledge discovery in database (KDD) is startled with development of approaches and techniques for making useof data. This thesis provides an insight into deep learning and machine learning techniques used in diagnosing diseases. Numerous data mining classifiers have been conversed whichhas emerged in recent years for efficient and effective disease diagnosis. This thesis proposes a heart attack prediction system using Deep learning techniques, specifically Multi-Layer Perceptron (MLP) to predict the likely possibilities of heart related diseases ofthe patient. MLP is a very powerful classification algorithm that makes use of Deep Learning approach in Artificial Neural Network. The proposed model incorporates deep learning and data mining to provide the accurate results with minimum errors.

CHAPTER 11

11. CONCLUSION AND FUTURE ENHANCEMENT

Conclusion and Future Work

In this project the problem of constraining and summarizing different algorithms of data mining used in the field of medical prediction are discussed. The focus is on using different algorithms and combinations of several target attributes for intelligent and effective heart disease prediction using data mining. Data mining technology provides an important means for extracting valuable medical rules hidden in medical data and acts as an important role in disease prediction and clinical diagnosis. There is an increasing interest in using classification to identify disease which is present or not. In the current study, have demonstrated, using a large sample of patients hospitalized with classification. Classification algorithm is very sensitive to noisy data. If any noisy data is present then it causes very serious problems regarding to the processing power of classification. It not only slows down the task of classification algorithm but also degrades its performance.

Hence, before applying classification algorithm it must be necessary to remove all those attributes from datasets who later on acts as noisy attributes. In this research work, we can implement pre-processing steps and implemented the classification rule algorithms namely multi-layer perceptron is used for classifying datasets which are uploaded by user. By analyzing the experimental results, it is observed that the multi-layer perceptron technique has yields better result than other techniques.

In future we tend to improve efficiency of performance by applying other data mining techniques and algorithms.

We have plan to improvise project by integrating with relevant IOTdevices and sensors. Instead of getting a arbitrary input from the user we canaccurately gets the data using hardware tools example instead of using a data,

ANDROID APP DEVELOPMENT
FOR WOMEN SAFETY

A PROJECT REPORT

Submitted by

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ANNA UNIVERSITY:: CHENNAI 600 025

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INTERNAL EXAMINER **EXTERNAL EXAMINER**

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ABSTRACT

Women are adept at mobilizing diverse groups for a frequent cause. They often work across racial, sacred, opinionated, and intellectual divides to encourage serenity. We are all aware of importance of women's security, but we must recognize that they should be well secluded. Women are not physically powerful as compared to men, in crisis situation a helping hand would be a relief for them. Many unfortunate incidents have been taking place in woman's case. Problems may come from any direction such as women walking on the road after the work, going to super market or many other reasons for which they go alone. People at home are not sure of their return safely. Another factor is woman die without knowing the reason as they attend excursions and industrial trips conducted by the organizations. It happens due to attacks on woman but not suicides. With the rapid growth of Android user and cheaper internet cost we can provide a simple medium to create safety awareness among the working and professional women of young and teen age. Women Safety Application can show you exact location of the women in help to her relatives, guardian and friends along with the specific location, where you can go and help it. Women Safety Application system offers the added protection of being track by relatives on different time interval and different location. We focus on the proposed model that can be used to deal with the problem of security issue of women using GPS and GSM based tracking system. And design the application as emergency application in mobile phones.

CHAPTER 12

CONCLUSION AND FUTURE ENHANCEMENT

12.1 Overview

This mobile application is very much helpful for any woman. Because when a woman is in danger position then she simply touch this I Safety mobile app and alert their guardians that the woman is in danger. By simply touching the app it sends the call for the first added guardian number and sends the message that she was in danger and sends the location message to the all-saved guardian contacts. Through this mobile app we can alert the people at home that a woman belonging to their house is safe or not. The problem of the women safety is increased rapidly in this environment, so I proposed as an effective Android application to prevent such type of the suspicious or natural disaster, by alerting the concern authorities using the android mobile phone which helps to stop such type of illegal activates and to trace the concern.

12.2 Future enhancement

- This mobile application is helpful in future when any problem arises in travelling or any kind of situations.
- As the technology emerges, it is possible to upgrade the system and can be adaptable to desired environment.
- Because it is based on object-oriented design, any further changes can be easily adaptable.
- Based on the future security issues, security can be improved using emerging technologies.

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29th Aug' 2022

To

The Principal,
NPR College of Engineering & Technology,
Natham, Dindigul – 624 401.

Dear Sir,

Sub: Internship training-Reg.

We are pleased confirm that the following listed students are permitted to undergo internship training in our company from **19.09.2022 to 04.10.2022.** At the time of joining the students should submit the bonafide certificate.

S. No.	Name of the student	Register Number	Year & Branch
1	Karthik K	920820104012	III CSE
2	Leo T	920820104018	III CSE
3	Sabarishan S	920820104031	III CSE
4	Saravana Pandi P	920820104035	III CSE

Yours Sincerely,
For **CMS IT Services Pvt Ltd.,**

Authorized Signatory,

NPR COLLEGE OF ENGG. & TECHNOLOGY NATHAM

Dr. J.SUNDARARAJAN,
B.E., M.Tech., Ph.D.,
Principal
NPR. College of Engineering & Technology
Natham, Dindigul (Dt) - 624 401.

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11th, Oct' 2022

To Whom So Ever It May Concern

This is to certify that **Mr.Karthik K**, Department of Computer Science & Engineering, NPR College of Engineering & Technology, Natham, Dindigul has undergone internship training from **19.09.2022 to 04.10.2022** in our organization.

During the period of his training, he had shown keen interest towards learning.

He demonstrated good design skills with self-motivated attitude to learn new things.

We wish him future endeavor.

Yours Sincerely,
For **CMS IT Services Pvt Ltd.,**

R. Z

Authorized Signatory,

CMS IT SERVICES PVT. LTD. TRICHY 620001

NPR COLLEGE OF ENGG. & TECHNOLOGY NATHAM

Dr. J.SUNDARARAJAN,
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11th, Oct' 2022

To Whom So Ever It May Concern

This is to certify that **Mr.Leo T**, Department of Computer Science & Engineering, NPR College of Engineering & Technology, Natham, Dindigul has undergone internship training from **19.09.2022 to 04.10.2022** in our organization.

During the period of his training, he had shown keen interest towards learning.

He demonstrated good design skills with self-motivated attitude to learn new things.

We wish him future endeavor.

Yours Sincerely,
For **CMS IT Services Pvt Ltd.,**

Authorized Signatory,

CMS IT SERVICES PVT LTD Trichy

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11th, Oct' 2022

To Whom So Ever It May Concern

This is to certify that **Mr.Sabarishan S**, Department of Computer Science & Engineering, NPR College of Engineering & Technology, Natham, Dindigul has undergone internship training from **19.09.2022 to 04.10.2022** in our organization.

During the period of his training, he had shown keen interest towards learning.

He demonstrated good design skills with self-motivated attitude to learn new things.

We wish him future endeavor.

Yours Sincerely,
For **CMS IT Services Pvt Ltd.,**

Authorized Signatory,

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To Whom So Ever It May Concern

This is to certify that **Mr.Saravana Pandi P**, Department of Computer Science & Engineering, NPR College of Engineering & Technology, Natham, Dindigul has undergone internship training from **19.09.2022 to 04.10.2022** in our organization.

During the period of his training, he had shown keen interest towards learning.

He demonstrated good design skills with self-motivated attitude to learn new things.

We wish him future endeavor.

Yours Sincerely,
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Triflorum

Triflorum Engineering and Business Solutions

Date: 12.09.2022

To

The Principal

NPR College of Engineering & Technology,

Natham-62440, Dindigul- 624401.

Respected Sir,

Sub: Internship training - Reg.

Ref: NPRCET/OFF/CSE/INT/2022-23 dated on 22.08.2022

With reference to the above, the third year CSE students **Mr.Saravanakumar T. Mr.Tharvinraja S, Mr.Vinoth A, Mr.P.A. Santhosh** has been permitted for implant training from **06.10.2022 to 21.10.2022 in** our organization. Students should submit the bonafide certificate at the time of joining the internship training.

Expecting your kind cooperation in this regard.

Managing Director

Mr.S.Kumaraguru

NPR COLLEGE OF ENGG. & TECHNOLOGY NATHAM

Dr. J.SUNDARARAJAN, B.E., M.Tech., Ph.D.,
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Triflorum

Triflorum Engineering and Business Solutions

Date: 28.10.2022

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Mr.Saravanakumar T** , third year student of BE-Computer science and Engineering, **NPR college of Engineering & Technology, Natham, Dindigul**, has successfully completed Internship training in our organization from **06.10.2022 to 21.10.2022.**

During the above period we found him sincere and hardworking. He has taken proper initiative efforts towards completed his training.

We wish him all the best for the future career.

Managing Director
Mr.S.Kumaraguru

NPR COLLEGE OF ENGG. & TECHNOLOGY * NATHAM

Dr. J.SUNDARARAJAN,
B.E., M.Tech., Ph.D.,
Principal
NPR. College of Engineering & Technology
Natham, Dindigul (Dt) - 624 401.

No.10/1, Chowdry Nagar, 1st Street, Valasaravakkam, Chennai-600 087. / info@triflorum.com/ www.triflorum.com/ Ph: +91 44 48590065

Triflorum

Triflorum Engineering and Business Solutions

Date: 28.10.2022

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Mr.Tharvinraja S** , third year student of BE-Computer science and Engineering, **NPR college of Engineering & Technology, Natham, Dindigul**, has successfully completed Internship training in our organization from **06.10.2022** to **21.10.2022.**

During the above period we found him sincere and hardworking. He has taken proper initiative efforts towards completed his training.

We wish him all the best for the future career.

Managing Director
Mr.S.Kumaraguru

NPR COLLEGE OF ENGG. & TECHNOLOGY NATHAM

Dr. J.SUNDARARAJAN, M.E., M.Tech., Ph.D.,
Principal
N.P.R. College of Engineering & Technology
Natham, Dindigul (Dt) - 624 401.

Triflorum

Triflorum Engineering and Business Solutions

Date: 28.10.2022

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Mr.Vinoth A** , third year student of BE-Computer science and Engineering, **NPR college of Engineering & Technology, Natham, Dindigul**, has successfully completed Internship training in our organization from **06.10.2022** to **21.10.2022.**

During the above period we found him sincere and hardworking. He has taken proper initiative efforts towards completed his training.

We wish him all the best for the future career.

Managing Director
Mr.S.Kumaraguru

NPR COLLEGE OF ENGG. & TECHNOLOGY NATHAM

Dr. J.SUNDARARAJAN,
B.E., M.Tech., Ph.D.,
Principal
NPR College of Engineering & Technology
Natham, Dindigul (Dt) - 624 401.

No.10/1, Chowdry Nagar, 1st Street, Valasaravakkam, Chennai-600 087. /infoatriflorum.com/ www.triflorum.com/ Ph: +91 44 48590065

Triflorum

Triflorum Engineering and Business Solutions

Date: 28.10.2022

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Mr.P.A.Santhosh** , third year student of BE-Computer science and Engineering, **NPR college of Engineering & Technology, Natham, Dindigul**, has successfully completed Internship training in our organization from **06.10.2022 to 21.10.2022.**

During the above period we found him sincere and hardworking. He has taken proper initiative efforts towards completed his training.

We wish him all the best for the future career.

Managing Director
Mr.S.Kumaraguru

NPR COLLEGE OF ENGG. & TECHNOLOGY NATHAM

Dr. J.SUNDARARAJAN,
B.E., M.Tech., Ph.D.,
Principal
NPR. College of Engineering & Technology
Natham, Dindigul (Dt) - 624 401.

No.10/1, Chowdry Nagar, 1st Street, Valasaravakkam, Chennai-600 087. /info@triflorum.com/ www.triflorum.com/ Ph: +91 44 48590065

Expect The World From Us
A Division of CMS IT Services Pvt. Ltd

19th , Oct' 2022

To

The Principal,
NPR College of Engineering & Technology,
Natham, Dindigul – 624 401.

Dear Sir,

Sub: In-plant Training-Reg.

We are pleased confirm that the following listed students are permitted to undergo in-plant training in our company from **02.11.2022 to 11.11.2022.** At the time of joining the students should submit the bonafide certificate.

S. No.	Name of the student	Register Number	Year & Branch
1	Abdul Jalil S	920819104001	IV CSE
2	Hari Deevagan M	920819104013	IV CSE
3	Muthu Kumar P	920819104022	IV CSE
4	Naveen Kumar S	920819104025	IV CSE

Yours Sincerely,
For **CMS IT Services Pvt Ltd.,**

Authorized Signatory,

Dr. J.SUNDARARAJAN,
B.E., M.Tech., Ph.D.,
Principal
NPR College of Engineering & Technology
Natham, Dindigul (Dt) - 624 401.

3rd Floor, TABS Complex, Opp. American Hospital, 41, Bharathidasan Salai, Cantonment, Trichy – 620 001
Phone : 0431- 4250437, Email : trichy@cmsinstitute.co.in Website: www.cmsinstitute.co.in

CMS
Expect The World From Us
A Division of CMS IT Services Pvt. Ltd.

24th Nov '2022

To Whom So Ever It May Concern

This is to certify that **Mr.Abdul Jalil S,** Department of Computer Science & Engineering, NPR College of Engineering & Technology, Natham, Dindigul has undergone in-plant training from **02.11.2022** to **11.11.2022** in our organization.

During the period of his training, he had shown keen interest towards learning.

He demonstrated good design skills with self-motivated attitude to learn new things.

We wish him future endeavor.

Yours Sincerely,
For **CMS IT Services Pvt Ltd.,**

Authorized Signatory,

NPR COLLEGE OF ENGG. & TECHNOLOGY * NATHAM

Dr. J.SUNDARARAJAN,
B.E., M.Tech., Ph.D.,
Principal
NPR College of Engineering & Technology
Natham, Dindigul(Dt) - 624 401.

CMS
3rd Floor, TABS Complex, Opp. American Hospital, 41, Bharathidasan Salai, Cantonment, Trichy – 620 001
Phone : 0431- 4250437, Email : trichy@cmsinstitute.co.in Website: www.cmsinstitute.co.in

Expect The World From Us
A Division of CMS IT Services Pvt. Ltd

24th Nov '2022

To Whom So Ever It May Concern

This is to certify that **Mr.Hari Deevagan M,** Department of Computer Science & Engineering, NPR College of Engineering & Technology, Natham, Dindigul has undergone in-plant training from **02.11.2022 to 11.11.2022** in our organization.

During the period of his training, he had shown keen interest towards learning.

He demonstrated good design skills with self-motivated attitude to learn new things.

We wish him future endeavor.

Yours Sincerely,
For **CMS IT Services Pvt Ltd.,**

Authorized Signatory,

COLLEGE OF ENGG. & TECHNOLOGY * NPR * NATHAM

Dr. J.SUNDARARAJAN,
B.E., M.Tech., Ph.D.,
Principal
NPR. College of Engineering & Technology
Natham, Dindigul (Dt) - 624 401.

3rd Floor, TABS Complex, Opp. American Hospital, 41, Bharathidasan Salai, Cantonment, Trichy – 620 001
Phone : 0431- 4250437, Email : trichy@cmsinstitute.co.in Website: www.cmsinstitute.co.in

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A Division of CMS IT Services Pvt. Ltd.

24th Nov '2022

To Whom So Ever It May Concern

This is to certify that **Mr.Muthu Kumar P**,Department of Computer Science & Engineering, NPR College of Engineering & Technology, Natham, Dindigul has undergone in-plant training from **02.11.2022 to 11.11.2022** in our organization.

During the period of his training, he had shown keen interest towards learning.

He demonstrated good design skills with self-motivated attitude to learn new things.

We wish him future endeavor.

Yours Sincerely,
For **CMS IT Services Pvt Ltd.,**

Authorized Signatory,

COLLEGE OF ENGG. & TECHNOLOGY NATHAM

Dr. J.SUNDARARAJAN,
B.E., M.Tech., Ph.D.,
Principal
NPR. College of Engineering & Technology
Natham, Dindigul (Dt) - 624 401.

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A Division of CMS IT Services Pvt. Ltd

24th Nov '2022

To Whom So Ever It May Concern

This is to certify that **Mr.Naveen Kumar S,** Department of Computer Science & Engineering, NPR College of Engineering & Technology, Natham, Dindigul has undergone in-plant training from **02.11.2022 to 11.11.2022** in our organization.

During the period of his training, he had shown keen interest towards learning.

He demonstrated good design skills with self-motivated attitude to learn new things.

We wish him future endeavor.

Yours Sincerely,
For **CMS IT Services Pvt Ltd.,**

Authorized Signatory,

Dr. J.SUNDARARAJAN,
B.E., M.Tech., Ph.D.,
Principal
NPR. College of Engineering & Technology
Natham, Dindigul (Dt) - 624 401.

3rd Floor, TABS Complex, Opp. American Hospital, 41, Bharathidasan Salai, Cantonment, Trichy – 620 001
Phone : 0431- 4250437, Email : trichy@cmsinstitute.co.in Website: www.cmsinstitute.co.in

Triflorum

Triflorum Engineering and Business Solutions

Date: 23.11.2022

To

The Principal,

NPR College of Engineering & Technology,

Natham-62440,Dindigul- 624401.

Respected Sir,

Sub: In-plant training - Reg.

Ref: NPRCET/OFF/CSE/IPT/2022-23 dated on 14.11.2022

With reference to the above, the final year CSE students **Ms.Afhran Nisha. A Ms.Indhumathi V , Ms.Sai Prasanthy N S, Ms.Sharumathi P.** has been permitted for implant training from **01.12.2022 to 08.12.2022** in our organization. Students should submit the bonafide certificate at the time of joining the in-plant training.

Expecting your kind cooperation in this regard.

Managing Director

Mr.S.Kumaraguru

NPR COLLEGE OF ENGG. & TECHNOLOGY NATHAM

Dr. J.SUNDARARAJAN,
B.E., M.Tech., Ph.D.,
Principal
NPR. College of Engineering & Technology
Natham, Dindigul (Dt) - 624 401.

Triflorum

Triflorum Engineering and Business Solutions

Date: 20.12.2022

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Ms.Afhran Nisha. A ,** final year student of BE-Computer science and Engineering, **NPR college of Engineering & Technology, Natham, Dindigul**, has successfully completed Internship training in our organization from **01.12.2022 to 08.12.2022.**

During the above period we found her sincere and hardworking. He has taken proper initiative efforts towards completed his training.

We wish him all the best for the future career.

Managing Director

Mr.S.Kumaraguru

Dr. J.SUNDARARAJAN,
B.E., M.Tech., Ph.D.,
Principal
NPR College of Engineering & Technology
Natham, Dindigul (Dt) - 624 401.

No.10/1, Chowdry Nagar, 1st Street, Valasaravakkam, Chennai-600 087. /info@triflorum.com/ www.triflorum.com/ Ph: +91 44 4859006

Triflorum

Triflorum Engineering and Business Solutions

Date: 20.12.2022

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Ms.Indhumathi V,** final year student of BE-Computer science and Engineering, **NPR college of Engineering & Technology, Natham, Dindigul**, has successfully completed Internship training in our organization from **01.12.2022 to 08.12.2022.**

During the above period we found her sincere and hardworking. He has taken proper initiative efforts towards completed his training.

We wish him all the best for the future career.

Managing Director
Mr.S.Kumaraguru

COLLEGE OF ENGG. & TECHNOLOGY NATHAM

Dr. J.SUNDARARAJAN,
B.E, M.Tech., Ph.D.,
Principal
NPR. College of Engineering & Technology
Natham, Dindigul (Dt) - 624 401.

No.10/1, Chowdry Nagar, 1st Street, Valasaravakkam, Chennai-600 087. /infoatriflorum.com/ www.triflorum.com/ Ph: +91 44 4859006

Triflorum

Triflorum Engineering and Business Solutions

Date: 20.12.2022

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Ms. Sai Prasanthy N S,** final year student of BE-Computer science and Engineering, **NPR college of Engineering & Technology, Natham, Dindigul**, has successfully completed Internship training in our organization from **01.12.2022** to **08.12.2022.**

During the above period we found her sincere and hardworking. He has taken proper initiative efforts towards completed his training.

We wish him all the best for the future career.

Managing Director
Mr.S.Kumaraguru

Dr. J.SUNDARARAJAN,
B.E., M.Tech., Ph.D.,
Principal
NPR College of Engineering & Technology
Natham, Dindigul (Dt) - 624 401.

No.10/1, Chowdry Nagar, 1st Street, Valasaravakkam, Chennai-600 087. / info@triflorum.com/ www.triflorum.com/ Ph: +91 44 4859006

Triflorum

Triflorum Engineering and Business Solutions

Date: 20.12.2022

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Ms. Sharumathi P,** final year student of BE-Computer science and Engineering, **NPR college of Engineering & Technology, Natham, Dindigul**, has successfully completed Internship training in our organization from **01.12.2022 to 08.12.2022.**

During the above period we found her sincere and hardworking. He has taken proper initiative efforts towards completed his training.

We wish him all the best for the future career.

Managing Director
Mr.S.Kumaraguru

NPR COLLEGE OF ENGG. & TECHNOLOGY NATHAM

Dr. J.SUNDARARAJAN,
B.E., M.Tech., Ph.D.,
Principal
NPR College of Engineering & Technology
Natham, Dindigul (Dt) - 624 401.

XPLORE IT CORP
IT APPS TRAINING SERVICE

No. 11, ART RANI COMPLEX, 2ND FLOOR
KALINGARAYAN STREET, RAMNAGER
COIMBATORE -641 009
INFO@XPLOREITCORP.COM
WWW.XPLOREITCORP.COM

Date: 20.02.2023

To

The Principal
NPR College of Engineering & Technology
Natham

Dear Sir,

Sub: Acceptance of in-plant training in our Company –Reg.

We would like to conform that the below listed students has undergone in-plant training in our company. Here are the terms of in-plant training with the company

1. Duration of training will be from **01.03.2023 to 08.03.2023**
2. The students will not be entitled or any other benefits from the company during this tenure.
3. During the training, you are expected to abide code of conduct prescribed by the company for all the employees.
4. Students must submit the bonafide at the time of training.
5. The listed students are **Ms Bavithra C , Ms. Devadharshini N, Ms. Divya S , Mr. Mangala Dharshini. R**

Please feel free to contact us in case of further details. Wishing you good luck for your future endeavours.

For Xplore IT Corp

Authorized Signatory

XPLORE IT CORP * Design Your Dreams * XIC

NPR COLLEGE OF ENGG. & TECHNOLOGY NATHAM

Dr. J. SUNDARARAJAN,
B.E., M.Tech., Ph.D.,
Principal
NPR College of Engineering & Technology
Natham, Dindigul (Dt) - 624 401.

XPLORE IT CORP

IT JOBS, TRAINING SERVICE

No. 10,BRT RANI COMPLEX,2ND FLOOR
KALINGARAYAN STREET,RAMNAGER
COIMBATORE-641 009
INFO@XPLOREITCORP.COM
WWW.XPLOREITCORP.COM

Date: 15.03.2023

CERTIFICATE OF COMPLETION

This is to certify that **Ms. Bavithra C** student of BE-CSE final year, NPR college of Engineering & Technology, Natham, Dindigul, has successfully completed in-plant training from **01.03.2023 to 08.03.2023.**

During this period her performance was found good.

We wish her good luck for all the future endeavours and looks forward to work in future.

For Xplore IT Corp

Authorized Signatory

NPR COLLEGE OF ENGG & TECHNOLOGY NATHAM

Dr. J.SUNDARARAJAN,
B.E., M.Tech., Ph.D.,
Principal
NPR College of Engineering & Technology
Natham, Dindigul (Dt) - 624 401.

OUR GOAL IS TO HAVE CUSTOMER SERVICE THAT IS NOT JUST THE BEST BUT LEGENDARY

XPLORE IT CORP
[illegible]

No. [illegible] RANI COMPLEX, 2ND FLOOR
KALINGARAYAN STREET, RAMNAGAR
COIMBATORE-641 009
INFO@XPLOREITCORP.COM
WWW.XPLOREITCORP.COM

Date: 15.03.2023

CERTIFICATE OF COMPLETION

This is to certify that **Ms. Devadharshini N** student of BE-CSE final year, NPR college of Engineering & Technology, Natham, Dindigul, has successfully completed in-plant training from **01.03.2023 to 08.03.2023.**

During this period her performance was found good.

We wish her good luck for all the future endeavours and looks forward to work in future.

For Xplore IT Corp

Authorized Signatory

NPR COLLEGE OF ENGG. & TECHNOLOGY NATHAM

Dr. J. SUNDARARAJAN,
B.E., M.Tech., Ph.D.,
Principal
NPR College of Engineering & Technology
Natham, Dindigul (Dt) - 624 401.

XPLORE IT CORP

No. [illegible] RANI COMPLEX, 2ND FLOOR
KALINGARAYAN STREET, RAMNAGER
COIMBATORE - 641 009
INFO@XPLOREITCORP.COM
WWW.XPLOREITCORP.COM

Date: 15.03.2023

CERTIFICATE OF COMPLETION

This is to certify that **Ms. Divya S** student of BE-CSE final year, NPR college of Engineering & Technology, Natham, Dindigul, has successfully completed in-plant training from **01.03.2023 to 08.03.2023.**

During this period her performance was found good.

We wish her good luck for all the future endeavours and looks forward to work in future.

For Xplore IT Corp

Authorized Signatory

NPR COLLEGE OF ENGG. & TECHNOLOGY NATHAM

Dr. J.SUNDARARAJAN, B.E., M.Tech., Ph.D.,
Principal
NPR. College of Engineering & Technology
Natham, Dindigul (Dt) - 624 401.

OUR GOAL IS TO HAVE CUSTOMER SERVICE THAT IS NOT JUST THE BEST BUT LEGENDARY

XPLORE IT CORP
IT/ITES TRAINING SERVICE

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KALINGARAYAN STREET,RAMNAGER
COIMBATORE-641 009
INFO@XPLOREITCORP.COM
WWW.XPLOREITCORP.COM

Date: 15.03.2023

CERTIFICATE OF COMPLETION

This is to certify that **Ms. Mangala Dharshini. R** student of BE-CSE final year, NPR college of Engineering & Technology, Natham, Dindigul, has successfully completed in-plant training from **01.03.2023 to 08.03.2023.**

During this period her performance was found good.

We wish her good luck for all the future endeavours and looks forward to work in future.

For Xplore IT Corp

Authorized Signatory

NPR COLLEGE OF ENGG. & TECHNOLOGY
NATHAM

Dr. J.SUNDARARAJAN,
B.E., M.Tech., Ph.D.,
Principal
NPR College of Engineering & Technology
Natham, Dindigul (Dt) - 624 401.

C3 TECHNOLOGIES
TRAINING | PROJECTS | PLACEMENTS
An ISO 29990:2010 Certified Institution
52/33, T.Nagar 3rd Cross, Ramanathapuram, Coimbatore -641 045.
Ph: 72000 55778 / 98435 55778. E-mail: c3technologiescbe@gmail.com

Date: 09.03.2023

To

The Principal,
NPR College of Engineering & Technology,
Natham,
Dindigul-624 401.

Dear Sir,

Sub: In-plant training- reg.

We wish to conform that the below listed students for in-plant training from **03.04.2023** to **17.04.2023** in our organization. During the period of internship training the students have to follow the rules and regulations in our organization. Submission of bonafide certificate at the time of training is mandatory.

S. No.	Name of the student	Register Number	Year & Branch
1	Akash T	920819104004	IV CSE
2	Anandakumar. A	920819104005	IV CSE
3	Santhosh Prakash.M	920819104031	IV CSE
4	Thirunavukkarasar T	920819104048	IV CSE

We appreciate your interest in our company.

NPR COLLEGE OF ENGG. & TECHNOLOGY NATHAN

Dr. J.SUNDARARAJAN,
B.E., M.Tech., Ph.D.,
Principal
NPR College of Engineering & Technology
Natham, Dindigul (Dt) - 624 401.

C3 TECHNOLOGIES
TRAINING | PROJECTS | PLACEMENTS
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52/33, T.Nagar 3rd Cross, Ramanathapuram, Coimbatore -641 045.
Ph: 72000 55778 / 98435 55778. E-mail: c3technologiesche@gmail.com

Date: 24.04.2023

CERTIFICATE OF INPLANT TRAINING

This is to certify that **Mr.Akash T** from NPR College Engineering and Technology has successfully completed in-plant training from **03.04.2023 to 17.04.2023** in our organization.

During the tenure of training, we found him very sincere, attentive and good behaviour.

For C3 TECHNOLOGIES

Managing Director

NPR COLLEGE OF ENGG. & TECHNOLOGY ★ NATHAM

Dr. J.SUNDARARAJAN,
B.E., M.Tech., Ph.D.,
Principal
NPR College of Engineering & Technology
Natham, Dindigul (Dt) - 624 401.

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52/33, T.Nagar 3rd Cross, Ramanathapuram, Coimbatore -641 045.
Ph: 72000 55778 / 98435 55778. E-mail: c3technologiescbe@gmail.com

Date: 24.04.2023

CERTIFICATE OF INPLANT TRAINING

This is to certify that **Mr. Anandakumar A** from NPR College Engineering and Technology has successfully completed in-plant training from **03.04.2023 to 17.04.2023** i in our organization.

During the tenure of training, we found him very sincere, attentive and good behaviour.

For C3 TECHNOLOGIES
Managing Director

Dr. J.SUNDARARAJAN,
B.E., M.Tech., Ph.D.,
Principal
NPR College of Engineering & Technology
Natham, Dindigul (Dt) - 624 401.

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52/33, T.Nagar 3rd Cross, Ramanathapuram, Coimbatore -641 045.

Ph: 72000 55778 / 98435 55778. E-mail: c3technologiesche@gmail.com

Date: 24.04.2023

CERTIFICATE OF INPLANT TRAINING

This is to certify that **Mr. Santhosh Prakash M** from NPR College Engineering and Technology has successfully completed in-plant training from **03.04.2023 to 17.04.2023** in our organization.

During the tenure of training, we found him very sincere, attentive and good behaviour.

for C3 TECHNOLOGIES

Managing Director

NPR COLLEGE OF ENGG. & TECHNOLOGY * NATHAM

Dr. J.SUNDARARAJAN,
B.E., M.Tech., Ph.D.,
Principal
NPR College of Engineering & Technology
Natham, Dindigul (Dt.) - 624 401.

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52/33, T.Nagar 3rd Cross, Ramanathapuram, Coimbatore -641 045.

Ph: 72000 55778 / 98435 55778. E-mail: c3technologiesche@gmail.com

Date: 24.04.2023

CERTIFICATE OF INPLANT TRAINING

This is to certify that **Mr. Thirunavukkarasar T** from NPR College Engineering and Technology has successfully completed in-plant training from **03.04.2023 to 17.04.2023** in our organization.

During the tenure of training, we found him very sincere, attentive and good behaviour.

NPR COLLEGE OF ENGG. & TECHNOLOGY NATHAM

For C3 TECHNOLOGIES

Dr. J.SUNDARARAJAN,
B.E., M.Tech., Ph.D.,
Principal
NPR College of Engineering & Technology
Natham, Dindigul (Dt) - 624 401.

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UKAC
52/33, T.Nagar 3rd Cross, Ramanathapuram, Coimbatore -641 045.
Ph: 72000 55778 / 98435 55778. E-mail: c3technologiescbe@gmail.com

Date: 03.04.2023

To

The Principal,
NPR College of Engineering & Technology,
Natham,
Dindigul-624 401.

Dear Sir,

Sub: Internship training- reg.

We wish to conform that the below listed students for internship training from **17.04.2023 to 02.05.2023** in our organization. During the period of internship training the students have to follow the rules and regulations in our organization. Submission of bonafide certificate at the time of training is mandatory.

S. No.	Name of the student	Register Number	Year & Branch
1	ANANDARAJ M	920820104002	III CSE
2	HARI VIGNESH K	920820104007	III CSE
3	KALEESWARAN S	920820104011	III CSE
4	MATHIVANAN V	920820104019	III CSE

We appreciate your interest in our company.

NPR COLLEGE OF ENGG. & TECHNOLOGY * NATHAM

Dr. J.SUNDARARAJAN, B.E., M.Tech., Ph.D.,
Principal
NPR College of Engineering & Technology
Natham, Dindigul (Dt) - 624 401.

For C3 TECHNOLOGIES

Managing Director

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52/33, T.Nagar 3rd Cross, Ramanathapuram, Coimbatore -641 045.
Ph: 72000 55778 / 98435 55778. E-mail: c3technologiescbe@gmail.com

Date: 15.05.2023

CERTIFICATE OF INTERNSHIP TRAINING

This is to certify that **Mr.Anandraj M**from NPR College Engineering and Technology has successfully completed internship training from **17.04.2023 to 02.05.2023** in our organization.

During the tenure of training, we found him very sincere, attentive and good behaviour.

For C3 TECHNOLOGIES

Managing Director

Dr. J.SUNDARARAJ
B.E., M.Tech., Ph.D.,
Principal
College of Engineering & Technology
Dindigul - 624 401.

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Ph: 72000 55778 / 98435 55778. E-mail: c3technologiescbe@gmail.com

Date: 15.05.2023

CERTIFICATE OF INTERNSHIP TRAINING

This is to certify that **Mr. Harivignesh K** from NPR College Engineering and Technology has successfully completed internship training from **17.04.2023 to 02.05.2023** in our organization.

During the tenure of training, we found him very sincere, attentive and good behaviour.

For C3 TECHNOLOGIES

Authorised Signatory

Dr. J.SUNDARARAJAN, B.E., M.Tech., Ph.D.,
Principal
NPR College of Engineering & Technology
Natham, Dindigul (Dt) - 624 401.

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Ph: 72000 55778 / 98435 55778. E-mail: c3technologiescbe@gmail.com

Date: 15.05.2023

CERTIFICATE OF INTERNSHIP TRAINING

This is to certify that **Mr. Kaleeswaran S** from NPR College Engineering and Technology has successfully completed internship training from **17.04.2023 to 02.05.2023** in our organization.

During the tenure of training, we found him very sincere, attentive and good behaviour.

NPR COLLEGE OF ENGG. & TECHNOLOGY NATHAM

For C3 TECHNOLOGIES
Managing Director

Dr. J.SUNDARARAJAN,
B.E., M.Tech., Ph.D.,
Principal
NPR College of Engineering & Technology
Natham, Dindigul (Dt). 624 401.

C3 TECHNOLOGIES
TRAINING | PROJECTS | PLACEMENTS
An ISO 29990:2010 Certified Institution
UKAC
52/33, T.Nagar 3rd Cross, Ramanathapuram, Coimbatore -641 045.
Ph: 72000 55778 / 98435 55778. E-mail: c3technologiescbe@gmail.com

Date: 15.05.2023

CERTIFICATE OF INTERNSHIP TRAINING

This is to certify that **Mr. Mathivanan V** from NPR College Engineering and Technology has successfully completed internship training from **17.04.2023 to 02.05.2023** in our organization.

During the tenure of training, we found him very sincere, attentive and good behaviour.

NPR COLLEGE OF ENGG. & TECHNOLOGY * NATHAM

For C3 TECHNOLOGIES
Managing Director

Dr. J.SUNDARARAJAN, B.E., M.Tech., Ph.D.,
Principal
NPR College of Engineering & Technology
Natham, Dindigul (Dt) - 624 401.

XPLORE IT CORP

No. 11, BRT RANI COMPLEX, 2ND FLOOR
KALINGARAYAN STREET, RAMNAGER
COIMBATORE - 641 009
INFO@XPLOREITCORP.COM
WWW.XPLOREITCORP.COM

Date: 12.04.2023

To

The Principal
NPR College of Engineering & Technology
Natham

Dear Sir,

Sub: Acceptance of internship training in our Company –Reg.

We would like to conform that the below listed students has undergone internship training in our company. Here are the terms of internship training with the company

1. Duration of training will be from **26.04.2023 to 11.05.2023**
2. The students will not be entitled or any other benefits from the company during this tenure.
3. During the training, you are expected to abide code of conduct prescribed by the company for all the employees.
4. Students must submit the bonafide at the time of training.
5. The listed students are **Mr.Venkatraman .M , Mr.Vijayakumar N, Mr. A.Kishore Kumar, Mr.K.Dhandeeswaran**

Please feel free to contact us in case of further details. Wishing you good luck for your future endeavours.

For Xplore IT Corp

Authorized Signatory

NPR COLLEGE OF ENGG. & TECHNOLOGY NATHAM

Dr. J.SUNDARARAJAN,
B.E., M.Tech., Ph.D.,
Principal
N.P.R. College of Engineering & Technology
Natham, Dindigul (Dt) - 624 401.

XPLORE IT CORP
IT/ITES TRAINING SERVICES

No. 1, JEBIT RANI COMPLEX, 2ND FLOOR
KALINGARAYAN STREET, RAMNAGER
COIMBATORE - 641 009
INFO@XPLOREITCORP.COM
WWW.XPLOREITCORP.COM

Date: 18.05.2023

CERTIFICATE OF COMPLETION

This is to certify that **Mr.Venkatraman .M** student of BE-CSE third year, NPR college of Engineering & Technology, Natham, Dindigul, has successfully completed internship training from **26.04.2023 to 11.05.2023**

During this period her performance was found good.

We wish him good luck for all the future endeavours and looks forward to work in future.

For Xplore IT Corp

Authorized Signatory

Dr. J.SUNDARARAJAN,
B.E., M.Tech., Ph.D.,
Principal
N.P.R. College of Engineering & Technology
Natham, Dindigul (Dt) - 624 401.

XPLORE IT CORP

No. 1/1, 1ST RANI COMPLEX, 2ND FLOOR
KALINGARAYAN STREET, RAMNAGER
COIMBATORE - 641 009
INFO@XPLOREITCORP.COM
WWW.XPLOREITCORP.COM

Date: 18.05.2023

CERTIFICATE OF COMPLETION

This is to certify that **Mr.Vijayakumar N** student of BE-CSE third year, NPR college of Engineering & Technology, Natham, Dindigul, has successfully completed internship training from **26.04.2023 to 11.05.2023**

During this period her performance was found good.

We wish him good luck for all the future endeavours and looks forward to work in future.

For Xplore IT Corp

Authorized Signatory

Dr. J.SUNDARARAJAN,
B.E., M.Tech., Ph.D.,
Principal
NPR College of Engineering & Technology
Natham, Dindigul (Dt) - 624 401.

OUR GOAL IS TO HAVE CUSTOMER SERVICE THAT IS NOT JUST THE BEST BUT LEGENDARY

XPLORE IT CORP

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KALINGARAYAN STREET,RAMNAGER
COIMBATORE - 641 009
INFO@XPLOREITCORP.COM
WWW.XPLOREITCORP.COM

Date: 18.05.2023

CERTIFICATE OF COMPLETION

This is to certify that **Mr. A.Kishorekumar** student of BE-CSE third year, NPR college of Engineering & Technology, Natham, Dindigul, has successfully completed internship training from **26.04.2023 to 11.05.2023 .**

During this period her performance was found good.

We wish her good luck for all the future endeavours and looks forward to work in future.

For Xplore IT Corp

Authorized Signatory

NPR COLLEGE OF ENGG. & TECHNOLOGY ★ NATHAM

Dr. J.SUNDARARAJAN,
B.E., M.Tech., Ph.D.,
Principal
NPR College of Engineering & Technology
Natham, Dindigul (Dt) - 624 401.

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COIMBATORE-641 009
INFO@XPLOREITCORP.COM
WWW.XPLOREITCORP.COM

Date: 18.05.2023

CERTIFICATE OF COMPLETION

This is to certify that **Mr. K.Dhandeeswaran** student of BE-CSE third year, NPR college of Engineering & Technology, Natham, Dindigul, has successfully completed internship training from **26.04.2023 to 11.05.2023.**

During this period her performance was found good.

We wish her good luck for all the future endeavours and looks forward to work in future.

For Xplore IT Corp

Authorized Signatory

Dr. J.SUNDARARAJAN,
B.E., M.Tech., Ph.D.,
Principal
NPR College of Engineering & Technology
Natham, Dindigul (Dt) - 624 401.

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Ref: NPRCET/OFF/CSE/IV/2022-23 **Date: 13.02.2023**

To

The Managing Director,
C3 Technologies,
Coimbatore- 641 045

Dear Sir,

Sub: Permission for Industrial Visit for our CSE students reg.

Ref: MoU between NPR College of Engineering and Technology & C3 Technologies-Coimbatore dated on 08/03/2021

I am looking for permission for our second and third-year CSE 96 students along with 4 faculties would like to visit your company for an industrial visit on 17.03.2023 (Friday). This visit is aimed at enhancing their knowledge. In this regard, I request you to permit our students to visit your company. I hope you will allow us the opportunity to visit your company. Looking positive response from your end.

Thanking you

NPR COLLEGE OF ENGG & TECHNOLOGY ★ NATHAM

PRINCIPAL
Dr. J.SUNDARARAJAN
B.E., M.Tech., Ph.D
Principal
N.P.R. College of Engineering & Tech...
Natham, Dindigul (Dt) - 624...

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An ISO 29990:2010 Certified Institution
UKAC
52/33, T.Nagar 3rd Cross, Ramanathapuram, Coimbatore -641 045.
Ph: 72000 55778 / 98435 55778. E-mail: c3technologiescbe@gmail.com

Date: 17.02.2023

To

The Principal,
NPR College of Engineering & Technology,
Natham,
Dindigul-624 401.

Dear Sir,

Sub: Industrial visit- reg.

We are pleased to confirm accepting your second and third-year CSE students for the industrial visit with the following schedule to our company .

Number of students permitted to Visit: II year –60 and III year- 36

Faculties permitted to visit: 4

Reporting date & time: 17.03.2023 & 10.30 a.m

All the visiting persons need to adhere to our company rules and regulations during the visit.

We appreciate your interest in our company.

C3 TECHNOLOGIES * COIMBATORE-641 045 *

FOR C3 TECHNOLOGIES

Managing Director

NPR COLLEGE OF ENGG. & TECHN. NATHAM

Dr. J.SUNDARARAJAN, B.E., M.Tech., Ph.D.
Principal
N.P.R. College of Engineering & Tech...
Natham, Dindigul (Dt) - 624 401

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

INDUSTRIAL VISIT TO C3 TECHNOLOGIES on 17.03.2023

STUDENTS NAME LIST

YEAR : II **BRANCH : CSE**

S.NO	REGISTER NUMBER	STUDENT NAME	ATTENDANCE
1.	920821104002	AJAYKUMAR K	
2.	920821104003	ANBARASAN P	
3.	920821104004	ANBARASU S	
4.	920821104005	ANBULINGAM E	
5.	920821104006	APSARA JASMINE S	
6.	920821104007	ARASUTHANGAPANDI M	
7.	920821104008	ARUSHA BANU A	
8.	920821104009	BABY SHALINI C	
9.	920821104010	BELLARMINE JOSHI V	
10.	920821104011	BHARATHI S	
11.	920821104012	BHUVANESHWARAN S	
12.	920821104013	DEVADHARSHINI R S	
13.	920821104014	DHANUSH M	
14.	920821104015	DHARANI T	
15.	920821104016	DHARINISH K	
16.	920821104017	DHARSHINI M	
17.	920821104018	DURGA GNANA DEVI S	
18.	920821104019	FAHMITHA SIRIN N	
19.	920821104020	FROSSEKHAN M	
20.	920821104021	GANTHA RAJA M	
21.	920821104022	GOKULAPRIYAN R	
22.	920821104023	HARISH T	
23.	920821104024	JAYASURYA A	
24.	920821104025	JOTHI MANI P	
25.	920821104026	JOTHIPRAKASH M	
26.	920821104027	KARTHIKEYAN D K	
27.	920821104028	KARTHIKEYAN M	
28.	920821104029	KEERTHI HARAN R	
29.	920821104301	BALA ANANDHAN R	
30.	920821104302	KRISHNA KUMAR T	
31.	920821104701	JEGANASH BEGAM.N	

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32.	920821104303	MADHAN T	
33.	920821104030	MADHESH G	
34.	920821104031	MADHUMITHA J	
35.	920821104033	NATCHATHIRA M	
36.	920821104034	NAVEEN S	
37.	920821104035	PAVITHRA J	
38.	920821104036	PHAVANESWAR K	
39.	920821104037	PRANOV M	
40.	920821104038	RAGUL R	
41.	920821104039	RATHIS KANNA R	
42.	920821104040	ROOBALA V	
43.	920821104041	SAHULHAMEED U	
44.	920821104042	SANKARADINESH A	
45.	920821104043	SHANMUGAPRIYA V	
46.	920821104044	SHEEBA S	
47.	920821104045	SHEEBA.V	
48.	920821104046	SHEIK ABDUL BASITH S	
49.	920821104047	SHRIHARINI V	
50.	920821104048	SIBIDHARANI K	
51.	920821104304	SIRAJUDEEN N	
52.	920821104049	SIVA KUMAR R	
53.	920821104050	SIVA SUBRAMANIAN N	
54.	920821104052	SRI SUDHARSANA LAKSHMI .D	
55.	920821104053	SUMITHA V	
56.	920821104054	SURESH KANNAN.M	
57.	920821104055	SURYAPRAKASH S	
58.	920821104056	SUSMITHA N	
59.	920821104057	THESHAN BANU S	
60.	920821104059	YUVASHRI A	

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

INDUSTRIAL VISIT TO C3 TECHNOLOGIES on 17.03.2023

STUDENTS NAME LIST

YEAR : III **BRANCH : CSE**

S.NO	REGISTER NUMBER	STUDENT NAME	ATTENDANCE
1.	920820104001	ABINAYA A	
2.	920820104003	DEEPIKA V	
3.	920820104004	DHARSHANAPRIYA K	
4.	920820104301	DILZATHBEGAM.B	
5.	920820104006	GEETHANJALI S	
6.	920820104008	JERON ROBINSON T	
7.	920820104009	JOSHUVA BASKARAN M	
8.	920820104010	KABILESH K	
9.	920820104013	KARTHIKEYAN.M	
10.	920820104014	KAVIARASAN C	
11.	920820104015	KEERTHI S	
12.	920820104016	KOWSALYA M	
13.	920820104017	LAKSHMIPATHY K	
14.	920820104020	MUTHULAKSHMI M	
15.	920820104021	NAFEELA NASRIN S	
16.	920820104022	NAVEEN K	
17.	920820104023	NIVETHA K	
18.	920820104024	PALANIKUMAR V	
19.	920820104025	PONNALAGU N	
20.	920820104026	PRADEEP RAJ R S	
21.	920820104027	PRAVEEN N	
22.	920820104028	PRIYADHARSHINI M	
23.	920820104029	RAJESH SHARMA R	
24.	920820104032	SALINI S	
25.	920820104033	SANJAY H	
26.	920820104036	SHABARIKANTH GK	
27.	920820104037	SHAJITHA YASMIN N	
28.	920820104038	SHRINIDHI G	
29.	920820104039	SIVAMANI VIGNESH D	

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30.	920820104040	SOWMIYA T	
31.	920820104041	SRIPRADEEP M	
32.	920820104042	SUBBULAKSHMI T	
33.	920820104043	SUDHARSAN G	
34.	920820104044	SUJIT RAGHAV MM	
35.	920820104045	SWATHI M	
36.	920820104050	YUVANESHKUMAR K	

Faculty Coordinators :

1. Mr.M.Arockia Irudayaraja, AP/CSE
2. Mrs.V.Sujitha, AP/CSE,
3. Mrs.K.Rajalakshmi, AP/CSE,
4. Mr.Manivel pandian , AP/CSE

HOD/CSE
Dr.K.Ramanan

COLLEGE OF ENGG. & TECHNOLOGY * NPRC NATHAM

PRINCIPAL

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PHOTO GALLERY

CSE students Industrial Visit to C3 Technologies on 17.03.2023

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