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 2021-2022.

Program name	Program Code	List of students undertaking project work/ field work/Internship	Page No
B.E. CSE	104	ARAVIND B	6
B.E. CSE	104	ABDUL JALIL S	81
B.E. CSE	104	ABINAYA A	80
B.E. CSE	104	AFHRAN NISHA A	73
B.E. CSE	104	AKASH T	81
B.E. CSE	104	ANANDAKUMAR A	48
B.E. CSE	104	ANANDARAJ M	80
B.E. CSE	104	BAVITHRA C	63
B.E. CSE	104	BHAVITHRA R	10
B.E. CSE	104	BRAMMA S	81
B.E. CSE	104	CHANDRU R	14
B.E. CSE	104	CHITRA B	18
B.E. CSE	104	DEEPIKA V	80
B.E. CSE	104	DEVA DHARSHINI N	81
B.E. CSE	104	DHARSHANAPRIYA K	80
B.E. CSE	104	DIVYA S	53
B.E. CSE	104	GUHAN P	81
B.E. CSE	104	GUNA DEVI I	22
B.E. CSE	104	GUNA SEKAR J	81
B.E. CSE	104	HARI DEEVAGAN M	81
B.E. CSE	104	HARI VIGNESH K	80
B.E. CSE	104	HEMAPRIYA M	22
B.E. CSE	104	HIFAYA THAQFEEN M	63
B.E. CSE	104	INDHUMATHI V	48
B.E. CSE	104	JANANI R	73
B.E. CSE	104	JOSHUVA BASKARAN M	80
B.E. CSE	104	KABILESH K	80
B.E. CSE	104	KALEESWARAN S	80
B.E. CSE	104	KAMALI B	18
B.E. CSE	104	KANMANI A	26
B.E. CSE	104	KARTHIGA JOTHI S	26
B.E. CSE	104	KARTHIK K	58
B.E. CSE	104	KARTHIKEYAN.M	80
B.E. CSE	104	KAVIARASAN C	80
B.E. CSE	104	KEERTHI S	80
B.E. CSE	104	KOWSALYA M	80
B.E. CSE	104	LEO T	80

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B.E. CSE	104	MANGALA DHARSINI R	55
B.E. CSE	104	MATHIVANAN V	80
B.E. CSE	104	MOHAMED RIBAK B	81
B.E. CSE	104	MONICA R	81
B.E. CSE	104	MUNEESHWARAN N	6
B.E. CSE	104	MUTHU KUMAR P	81
B.E. CSE	104	MUTHULAKSHMI M	80
B.E. CSE	104	NAFEELA NASRIN S	80
B.E. CSE	104	NANDHA KUMAR B	81
B.E. CSE	104	NANDHINI S	81
B.E. CSE	104	NAVEEN K	80
B.E. CSE	104	NAVEEN KUMAR S	73
B.E. CSE	104	NAVEEN RAJA B	30
B.E. CSE	104	NIVEDHA R	34
B.E. CSE	104	NIVETHA K	80
B.E. CSE	104	NIVETHA A	10
B.E. CSE	104	PALANIKUMAR V	80
B.E. CSE	104	PALPANDI R	30
B.E. CSE	104	PONNALAGU N	80
B.E. CSE	104	POORNIMA DEVI P	81
B.E. CSE	104	PRADAP S	14
B.E. CSE	104	PRADEEP RAJ R S	80
B.E. CSE	104	PRAKASH P	14
B.E. CSE	104	PRAVEEN T	81
B.E. CSE	104	PRIYADHARSHINI M	80
B.E. CSE	104	RAMYA R	34
B.E. CSE	104	ROOBIKA N	18
B.E. CSE	104	RUTHRA A	18
B.E. CSE	104	SAFRINE BANU S	10
B.E. CSE	104	SAI PRASANTHY N S	81
B.E. CSE	104	SANJAY H	81
B.E. CSE	104	SANTHOSH PRAKASH M	48
B.E. CSE	104	SANTHOSHINI V	58
B.E. CSE	104	SARANIYA M	34
B.E. CSE	104	SARANYA R	81
B.E. CSE	104	SATHANA S	22
B.E. CSE	104	SATHYA M	81
B.E. CSE	104	SELVAMBIKAI N	81
B.E. CSE	104	SHAHITHA RIZWANA S	10
B.E. CSE	104	SHRINITHI M	22
B.E. CSE	104	SIVAPRIYA R	48
B.E. CSE	104	SOWMIYA T	80
B.E. CSE	104	SRIDHAR K	6
B.E. CSE	104	SRINIVASH A	56
B.E. CSE	104	SRIVATHS KARTHIC G	53
B.E. CSE	104	SUBBULAKSHMI T	80

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B.E. CSE	104	SUBHASHINI K	81
B.E. CSE	104	SUDHARSAN G	80
B.E. CSE	104	SUJIT RAGHAV MM	80
B.E. CSE	104	SUJITHA P	81
B.E. CSE	104	SURYA K	73
B.E. CSE	104	SWATHI M	80
B.E. CSE	104	THARVINRAJA S	80
B.E. CSE	104	THILAGAVATHY V	82
B.E. CSE	104	THIRISHA P	82
B.E. CSE	104	THIRUNAVUKKARASAR T	63
B.E. CSE	104	THIYAGARAJAN S	63
B.E. CSE	104	VENKTRAMAN M	81
B.E. CSE	104	VIJAYA BHARATHI P	34
B.E. CSE	104	VIJAYAKUMAR N	81
B.E. CSE	104	VINEETH PANDIAN S	30
B.E. CSE	104	VINOTH A	81
B.E. CSE	104	YOGESHWARAN V	30

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Students Major Project List

Year/Sem: IV/VIII **Batch** :2018-2022 **Subject Code & Subject Name :** CS8811 - Project Work

Sl.No	Batach No	Registration No.	Name	Project Title	Name of the Guide
1	I	920818104002	Aravind B	A Pulmonary Lobe Based Covid-disease Prediction using deep Learning Techniques	Mrs.J.PriscaMary AP/CSE
2		920818104017	Muneeshwaran N		
3		920818104037	Sridhar K		
4	II	920818104003	Bhavithra R	Sign Language Recognition using Machine Intelligence for hearing Impairment Person	Mrs.Kalarani, AP/CSE
5		920818104021	Nivetha A		
6		920818104029	Safrine Banu S		
7		920818104035	Shahitha Rizwana S		
8	III	920818104004	Chandru R	A Secure Pin Authentication Method for Real Time Environment	Dr.A.Amudha AP/CSE
9		920818104023	Pradap S		
10		920818104024	Prakash P		
11	IV	920818104005	Chitra B	A Fog Centric Secure Cloud Storage Scheme	Mrs.V.Sujitha AP/CSE
12		920818104010	Kamali B		
13		920818104027	Roobika N		
14		920818104028	Ruthra A		
15	V	920818104007	Guna Devi I	Farmers E-Commerce Web APP and Mining User Sentimental Analysis	Mrs.C.Kalpana AP/CSE
16		920818104009	Hemapriya M		
17		920818104034	Sathana S		
18		920818104036	Shrinithi M		
19	VI	920818104011	Kanmani A	Driver Fatigue Recognition Based user facial features using Convolution Neural Networks	Dr.A.Amudha
20		920818104012	Karthiga Jothi S		
21		920818104030	Santhoshini V		

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22	VII	920818104019	Naveen Raja B	User Authentication Based on Face and Periocular regions using deep learning Algorithm.	Mr.M.Arockia Irudayaraja AP/CSE
23		920818104022	Palpandi R		
24		920818104039	Vineeth Pandian S		
25		920818104040	Yogeshwaran V		
26	VIII	920818104020	Nivedha R	Privacy Based Image Sharing in Social Networks Using Wavelet Transform	Mrs.R.Vasuki AP/CSE
27		920818104026	Ramya R		
28		920818104033	Saraniya M		
29		920818104038	Vijaya Bharathi P		

PROJECT COORDINATOR

HOD - CSE

A PULMONARY LOBE BASED COVID DISEASE PREDICTION USING DEEP LEARNING TECHNIQUES

A PROJECT REPORT

Submitted by

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SRIDHAR.K	(920818104037)

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ABSTRACT

Coronavirus disease 2019 (COVID-19) is an infectious disease triggered by severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2). Since the disease has spread all over the globe in enormous numbers and is declared a pandemic. Although radiological imaging is not recommended for diagnostics as the patient arrives in the clinic, a chest X-ray is often useful to monitor treatment outcomes and comorbidities in seriously ill patients. The detection of COVID-19 from chest X-ray and its differentiation from lung diseases with identical opacities is a puzzling task that relies on the availability of expert radiologists. Recently, several researchers have reported the use of AI-based tools in solving image classification problems in healthcare, based on training with X-ray images, CT scans, histopathology images. Deep learning is an extremely powerful tool for learning complex, cognitive problems, and the frequency of their use and evaluation in different problems is increasing. In the present study, we have made use of a deep learning algorithm using the convolutional neural network (CNN) that can efficiently detect COVID-19 from CT-scan images. And also implement Multi-class CNN to identify the multiple lung diseases such as Pneumonia, tuberculosis. Experimental results shows that the proposed system provide improved accuracy in disease prediction and also provide the diagnosis information about analysed diseases.

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CHAPTER 11

CONCLUSION AND FUTURE ENHANCEMENT

11.1 CONCLUSION

The confirmatory diagnosis of COVID-19 is mainly dependent on clinical symptoms, epidemiological history, nucleic acid detection, immune identification technology, etc. All the methods mentioned above have some limitations such as time required, costs, equipment dependence, shortage of testing kits, availability of trained healthcare workers, interoperator variability's, especially in a pandemic like this, making them cumbersome diagnostic procedures. Timely diagnosis of the COVID-19 patients can enable help in the optimization of available resources, including trained human resources, for all the supportive measures required for confirmed patients. Automated AI-based intelligent chest X-ray classification has such untapped potential for this unmet need, as evident from recent researches. Rapid screening to diagnose such patients is also essential for controlling outbreaks. In conclusion, an AI system derived from heterogeneous multinational training data delivers acceptable performance metrics for the classification of chest CT for COVID-19 infection. We can conclude that the proposed system provided multiple lung disease classification using CNN algorithm. Our system implemented contour method to segment the lung lesions and with multi-class classification with multiple lung related diseases with improved accuracy rate.

11.2 FUTURE ENHANCEMENT

In the present time, the whole world is affected by Covid-19 disease, and the most important thing is no single country scientists can prepare a vaccine for the same. In future, we can extend the framework to implement various deep learning algorithms to improve the accuracy with various images.

SIGN LANGUAGE RECOGNITION USING MACHINE INTELLIGENCE FOR HEARING IMPAIRMENT PERSON

A PROJECT REPORT

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ABSTRACT

People with impaired speech and hearing uses Sign language as form of communication. Disabled People use this sign language gestures as a tool of non-verbal communication to express their own emotions and thoughts to other common people. Conversing with people having a hearing disability is a major challenge. Deaf and Mute people use hand gesture sign language to communicate, hence normal people face problems in recognizing their language by signs made. Hence there is a need for systems that recognize the different signs and conveys the information to normal people. But these common people find it difficult to understand their expression, thus trained sign language expertise are needed during medical and legal appointment, educational and training session. Over the past few years, there has been an increase in demand for these services. Other form of services such as video remote human interpret using the high-speed Internet connection, has been introduced, thus these services provides an easy to use sign language interpret service, which can be used and benefited, yet have major limitations. To address this problem, we can implement artificial intelligence technology to analyze the user's hand with finger detection . In this proposed system we can design the vision based system in real time environments. And then using deep learning algorithm named as Convolutional neural network algorithm to classify the sign and provide the label about recognized sign.

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CHAPTER 11

11. CONCLUSION AND FUTURE ENHANCEMENT

11.1 CONCLUSION

The ability to look, listen, talk, and respond appropriately to events is one of the most valuable gifts a human being can have. However, some unfortunate people are denied this opportunity. People get to know one another through sharing their ideas, thoughts, and experiences with others around them. There are several ways to accomplish this, the best of which is the gift of "Speech." Everyone can very persuasively transfer their thoughts and comprehend each other through speech. Our initiative intends to close the gap by including a low-cost computer into the communication chain, allowing sign language to be captured, recognised, and translated into speech for the benefit of blind individuals. An image processing technique is employed in this paper to recognise the handmade movements. This application is used to present a modern integrated planned system for hear impaired people. The camera- based zone of interest can aid in the user's data collection. Each action will be significant in its own right.

11.2 FUTURE ENHANCEMENT

In future, we can extend the framework to implement various deep learning algorithms to recognize the signs and implement in real time applications.

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A SECURE PIN AUTHENTICATION METHOD FOR REAL TIME ENVIRONMENT

PROJECT REPORT

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ABSTRACT

The importance of security in the authentication process as well as the increase in threat level posed by such malware has attracted many researchers to the field. Many attacks are successful in accessing social network accounts since the current password-based authentication paradigms are not efficient and robust enough as well as vulnerable to automated attacks. The simplest alternative is complementing the single factor (password-based) authentication process with additional identification elements, such as one-time PIN codes, generated by the user's own device (e.g. the smartphone) or received via SMS. In this project, a novel method using three layer based authentication is proposed to address the problem of shoulder-surfing attacks on authentication schemes. First layer based on biometric based authentication system, which provides new solutions to address the issues of security and privacy. So implement real time authentication system using face biometrics for authorized the person for ATM system. Second layer provide OTP verification with reverse processing. Then implement PIN-based authentication method that operates on ATM Application. Hybrid keypad uses the technique to blend two keypads with different digit orderings in such a way, that the user who is close to the device is seeing one keypad to enter the PIN, while the attacker who is looking at the device from a bigger distance is seeing only the other keypad. The three layer authentication process enabled when user login into the application and also when a transaction is done.

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CHAPTER 11

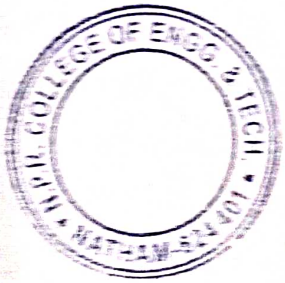
11. CONCLUSION AND FUTURE ENHANCEMENT

11.1 CONCLUSION

The main goal and importance of the ATM system using face image is to provide security. ATM system using fingerprint is secure, but it still has some demerits. To overcome the challenges of the technology it can be combined with more secure features. In this project we are using biometric security measure in the ATM system. The proposed system explains a hybrid keypad is implemented in a ATM application. The main goal of our work was to design a PIN-based authentication scheme that would be resistant against shoulder surfing attacks. To this end, we created Illusion PIN. The proposed system has quantified the level of resistance against shoulder-surfing by introducing the notion of safety distance. This means that even if a person perceives the digits on a hybrid keypad to be equally visible to the digits on a digital keypad, the distortion in the hybrid keypad is bigger and the visibility index has a lower value. This is something logical, because when the reference buttons are all same color, a digit that is even slightly visible is considered a big distortion.

11.2 FUTURE ENHANCEMENT

Future work of this project is to propose an android based application for banking process also implement high secure measurements using Digital PIN based authentication or Bright Pass based authentication. Also have plan to improve more security to the system with low computation time and also this have been develop in android application for mobile based social network access.



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A FOG CENTRIC SECURE CLOUD STORAGE SCHEME

A PROJECT REPORT

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ABSTRACT

The storage service is excellent unless users outsource their sensitive data to cloud storage server. Cloud server gets full access and control over user's data once data is outsourced to the cloud. It can read or search through the user's data. Privacy breach, malicious modification and data loss are emerging cyber threats against a cloud storage. Recently, fog server based three-layer architecture has been presented for secure storage. In that architecture, the portion of data to be stored in cloud, fog and user's local machine. Some portion of data in the cloud and their customized hash algorithm, take extra computation/storage overhead. In this project, we have used a fog-based cloud storage scheme. In that scheme, data is splitted into multiple blocks through XOR-combination and combine this blocks into 2-blocks or 3- blocks using XOR-operation. So using this scheme, we enhance the efficiency of fog based cloud storage service and improve the security of fog server for a robust fog centric cloud computing infrastructure and we enhance crypto system to secure data without revealing any information from it. Fog centric secure cloud storage scheme protect data against unauthorized access, modification and destruction.

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CHAPTER 12

CONCLUSION AND FUTURE ENHANCEMENT

12.1 CONCLUSION

Fog based three-layer architecture befits to a secure solution for robust cloud storage against cyber threats. This project we proposed a scheme that undertakes preventive activities to a trusted fog server and puts the actual data in twisted format to multiple cloud servers. We enhanced the efficiency of fog based cloud storage service. We improve the security of fog server for a robust fog centric cloud computing infrastructure.

12.2 FUTURE ENHANCEMENT

- To enhance the efficiency of fog based cloud storage service.
- To improve the security of fog server for a robust fog centric cloud computing infrastructure.
- To enable cloud server to compute cryptic data without revealing any information from it.

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FARMERS E-COMMERCE WEB APP AND MINING USER SENTIMENTAL ANALYSIS

A PROJECT REPORT

Submitted by

I. GUNA DEVI (92081804007)

M. HEMAPRIYA (92081804009)

S. SATHANA (92081804034)

M. SHRINITHI (92081804036)

in partial fulfilment for the award of the degree

of

BACHELOR OF ENGINEERING

IN

COMPUTER SCIENCE AND ENGINEERING

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BONAFIDE CERTIFICATE

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ABSTRACT

Agriculture is the strength of Indian economy and 70% of India's total population is primarily dependent on agriculture for their employment. Agriculture is still an underdeveloped sector when it comes to technologies being inculcated. With the growing technology and internet services the information related to the different government agricultural schemes are now available on the internet in the form of websites and mobile apps. But because of digital illiteracy in the rural areas, farmers are not conscious about the different agricultural information & Schemes. This mobile app will provide the Indian farmers with different government schemes for which they are eligible. Consumer reviews in E- commerce systems are usually treated as the important resources that reflect users experience, feelings, and willingness to purchase items. There is no review analysis for agricultural products in our zone. All this information may involve consumer's views on things that can express interest, sentiments, and opinions. Following this view of point, an Ecommerce system reviews mining oriented sentiment similarity analysis approach is put forward to exploring users' similarity and their trust .The trust divide into two categories, namely direct trust, and propagation of trust, which represents a trust relationship between two individuals. The direct trust degree is obtained from sentiment similarity, and present an entity-sentiment word pair mining method for similarity feature extraction. The propagation of trust is calculated according to the transitivity feature. Using the proposed trust representation model, the shortest path to describe the tightness of trust and put forward an improved shortest path algorithm to figure out the propagation trust relationship between users. Set of review data from our website is collected. The experimental results indicate that the sentiment similarity analysis can be an efficient method to and trust between users in Ecommerce system.

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CHAPTER 12

12. CONCLUSION AND FUTURE ENHANCEMENT

Our project concluded that how e-commerce will transform online agribusiness is still indeterminate. Stronger connection between farmers and consumers may result in more differentiated products that meet consumer needs. E-commerce offers an alternative venue of promoting and marketing agricultural products that has a benefit of reaching extensive geographical populations and providing detailed product information at a relatively low cost. Markets may become more transparent. As the Internet transcends geography the globalization of the sector may become a reality. Transformation is about change and change creates winners and losers. The winners will be the fast innovators best. In future, expect a cloud based database and make our agribusiness through worldwide with the above all qualities.

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DRIVER FATIGUE RECOGNITION BASED USER FACIAL FEATURES USING CONVOLUTIONAL NEURAL NETWORK

A PROJECT REPORT

Submitted by

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S. KARTHIGA JOTHI (920818104012)

V. SANTHOSHINI (920818104030)

In partial fulfilment for the award of the degree

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BONAFIDE CERTIFICATE

Certified that this project report **"DRIVER FATIGUE RECOGNITION BASED UNDER FACIAL FEATURES USING CONVOLUTIONAL NEUTRAL NETWORK"** is the bonafide work of **KANMANI.A (920818104011), KARTHIGA JOTHI.S (920818104012), SANTHOSHINI.V (920818104030)** who carried out the project work under my supervision.

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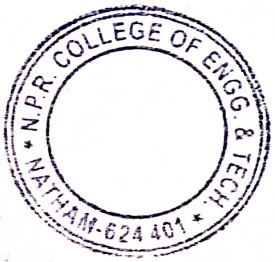
ABSTRACT

Drowsiness and fatigue of automobile drivers reduce the drivers' abilities of car manage, herbal reflex, recognition and notion. Such diminished vigilance stage of drivers is found at night time driving or overdriving, causing twist of fate and pose extreme danger to mankind and society. Therefore, it is very tons essential in this recent fashion in vehicle industry to include driving force help system which could hit upon drowsiness and fatigue of the drivers. This undertaking offers a nonintrusive prototype computer vision gadget for monitoring a driving force's vigilance in real time. Eye tracking is one of the key technologies for destiny motive force help systems for the reason that human eyes contain lots statistics approximately the driver's condition which includes gaze, attention stage, and fatigue degree. One problem commonplace too many eye monitoring strategies proposed to this point is their sensitivity to lighting fixtures situation exchange. This has a tendency to seriously restrict their scope for car packages. Real-time detection and monitoring of the attention is an energetic region of research in laptop imaginative and prescient community. Localization and monitoring of the attention can be beneficial in face alignment. This challenge describes actual time eye detection and tracking approach that works underneath variable and sensible lighting fixtures situations. It is primarily based on a hardware device for the real-time acquisition of a driving force's snap shots the use of digital camera and the software program implementation for monitoring eye that can avoid the accidents.



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CHAPTER 11

11. CONCLUSION AND FUTURE ENHANCEMENT

11.1 CONCLUSION

Drowsiness and fatigue of automobile drivers reduce the drivers' abilities of vehicle control, natural reflex, recognition and perception. Such diminished vigilance level of drivers is observed at night driving or overdriving, causing accident and pose severe threat to mankind and society. The proposed system can be used for driver's safety and its consequences. The system detects drowsiness of driver through eye conditions. It based on face detection using well known Linear Discriminative algorithm, eyes are detected through proposed crop Eye algorithm which segments the face in different segments in order to get left and right eye. Conditions of open and close eye are determined by intensity values, distance between eye brow and eye lash is calculated. If calculated distance is greater than threshold value, eyes are closed otherwise open. An alarm is triggered if eyes are found to be closed for consecutive frames. The proposed method was tested in video sequence recorded in vehicle as well as in lab environment. The proposed system works in real time with minimal computational complexity. Therefore, it is also suitable for implementing in surveillance environment. The system produces 90% accurate results for different faces.

11.2 FUTURE ENHANCEMENT

However, its limitation is detecting the eyes of person wearing glasses. Also it does not produce accurate results if any reflective object is found behind the driver. In future, we can consider the limitations and implemented with embedded system

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USER AUTHENTICATION BASED ON FACE AND PERIOCULAR REGIONS USING DEEP LEARNING ALGORITHM

A PROJECT REPORT

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BONAFIDE CERTIFICATE

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ABSTRACT

The use of biometric for identification purposes requires that a particular biometric factor be unique for each individual that it can be calculated, and that it is invariant over time. Biometrics such as signatures, photographs, fingerprints, voiceprints and retinal blood vessel patterns all have noteworthy drawbacks. Although signatures and photographs are cheap and easy to obtain and store, they are impossible to identify automatically with assurance, and are easily forged. Human iris on the other hand as an internal organ of the eye and as well protected from the external environment, yet it is easily visible from within one meter of distance makes it a perfect biometric for an identification system with the ease of speed, reliability and automation. Iris recognition is an automated method of biometric identification that uses mathematical pattern-recognition techniques on images of the irises of an individual's eyes, whose complex random patterns are unique. In this work it is proposed to implement a face and iris recognition system, where Grassmann algorithm, Gabor filtering and deep neural network is used to segment the face, eye and iris region. A template of the detected region is created using template matching for recognition is based on features in real time enrolment system. The results shows that the proposed method is efficient for iris based biometric recognition.

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CHAPTER 11

11. CONCLUSION AND FUTURE ENHANCEMENT

11.1 CONCLUSION

Unimodal biometric systems fail due to lack of biometric information for a particular feature. Thus, it is robust to use multimodal biometrics for providing greater authentication. This review observed that multimodal biometrics authentication solve the issues in unimodal biometrics system such as interclass similarities, noisy data, and non-universality. In multimodal biometric, the biometric identifiers are fused based on feature extraction level, matcher score level and decision level. In this project, the various existing techniques used for the face and ocular multimodal biometric system have been reviewed. The primary objective of this project is to provide an explanatory view of periocular biometrics literature and about what features, feature extraction methods and matching schemes are already explored and what issues are remaining to be unexplored in this field. With the fast-growing technological world, it is necessary that the system used for identification and verification of the per-sons must ask for less user cooperation and periocular biometrics is a very good solution for this problem. Periocular region can be considered as a very promising trait both as a single modality and as a support for face and iris biometric. Periocular region achieved better result in many cases where face biometric suffers from different constraints like pose, illumination variation, occlusion and aging effect. Fusion of iris and periocular region also achieved better results as compared to iris as a stand-alone modality.

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PRIVACY BASED IMAGE SHARING IN SOCIAL NETWORKS USING WAVELET TRANSFORM

A PROJECT REPORT

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INTERNAL EXAMINER

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ABSTRACT

Image over the social network is transferred or transmitted between servers and mobile users. Privacy of that data is very important as it belongs to personal sensitive information. If image gets hacked by the hacker, can be used to defame a person's social data. In existing system, text-based encryption can be implemented in mobile cloud computing. There are many different approached of storing data securely over the cloud, using mobile computing such as end-to-end encrypted data transmission, dynamic credential generation only for text data. In this project, we can introduce a novel watermarking scheme with wavelet algorithm named as discrete wavelet transform in real time social network application as Facebook. In this scheme we can use images and stored in server in secure format. And also extend the project; we categorize the picture as sensitive or normal. If it is sensitive means, perform copyrights algorithms. Then provide the permission to the receiver end for download the images in secure manner. Experimental result can be shows that in real time mobile cloud environments using C#.NET as front end and SQL SERVER as back end and comparative study of existing algorithms based on computational time and privacy rate.

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CHAPTER 12

CONCLUSION AND FUTURE ENHANCEMENT

11.1 CONCLUSION

The appearance of well-known online social networking has triggered within the compromise of conventional notions of privateness, certainly in visual media. With a view to facilitate useful and principled protection of picture privateness online, we have got supplied the design, implementation, and evaluation of photo shield gadget that successfully and successfully protects client's photo privateness across famous OSNs. The digital watermarking approach based fully on DWT coefficients modification for social networking offerings has been presented on this paper. In the embedding manner, the coefficients in LL sub-band had been used to embed watermark. Within the extraction process, normal coefficient prediction based on imply clear out is used to boom the accuracy of the extracted watermark.

11.2 FUTURE ENHANCEMENT

As part of future work, to implement cryptographic techniques and various filtering techniques to secure OSN home page. And also extend the work in privacy based uploaded video content sharing sites. The experimental outcome confirmed a larger overall efficiency in specific time application.

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Date: 14.07.2021

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 inplant training from **02.08.2021 to 09.08.2021** in our organization. During the period of inplant 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.	Chandru.R	920818104004	IV CSE
2.	Hemapriya.M	920818104009	IV CSE
3.	Nivedha.R	920818104020	IV CSE
4.	Ramya.R	920818104026	IV CSE

We appreciate your interest in our company.

For C3 TECHNOLOGIES

Managing Director

Dr. J.SUNDARARAJAN,
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Date: 16.09.2019

CERTIFICATE OF IN-PLANT TRAINING

This is to certify that **Mr. Chandru R** from NPR College Engineering and Technology has successfully completed inplant training from **02.08.2021 to 09.08.2021** in our organization.

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

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Date: 16.08.2021

CERTIFICATE OF IN-PLANT TRAINING

This is to certify that **Ms. Hemapriya M** from NPR College Engineering and Technology has successfully completed inplant training from **02.08.2021** to **09.08.2021** 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,
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Date: 16.08.2021

CERTIFICATE OF IN-PLANT TRAINING

This is to certify that **Ms. Nivedha R** from NPR College Engineering and Technology has successfully completed inplant training from **02.08.2021 to 09.08.2021** in our organization.

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

Dr. J.SUNDARARAJAN,
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Date: 16.08.2021

CERTIFICATE OF IN-PLANT TRAINING

This is to certify that Ms. Ramya R from NPR College Engineering and Technology has successfully completed inplant training from 02.08.2021 to 09.08.2021 in our organization.

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

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Date: 19.07.2021

To

The Principal
NPR College of Engineering & Technology
Natham

Dear Sir,

Sub: Acceptance of Inplant 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 **09.08.2021 to 16.08.2021**
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. Kamali B , Mr. Naveen Raja B, Ms. Shahitha Rizwana S, Ms. Vijaya Bharathi P.**

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

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COLLEGE OF ENGG. & TECHNOLOGY * NPR * MATHAM

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

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

Date: 20.08.2021

CERTIFICATE OF COMPLETION

This is to certify that Ms. Kamali B student of BE-CSE final year, NPR college of Engineering & Technology, Natham, Dindigul, has successfully completed inplant training from **09.08.2021 to 16.08.2021.**

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

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WWW.XPLOREITCORP.COM

Date: 20.08.2021

CERTIFICATE OF COMPLETION

This is to certify that **Mr. Naveen Raja B** student of BE-CSE final year, NPR college of Engineering & Technology, Natham, Dindigul, has successfully completed inplant training from **09.08.2021 to 16.08.2021.**

During this period his performance was found good.

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

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Authorized Signatory

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

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Date: 20.08.2021

CERTIFICATE OF COMPLETION

This is to certify that **Ms.Shahitha Rizwana S** student of BE-CSE final year, NPR college of Engineering & Technology, Natham, Dindigul, has successfully completed inplant training from **09.08.2021 to 16.08.2021.**

During this period his performance was found good.

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

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Principal
N.P.R. College of Engineering & Technology
Natham, Dindigul (Dt) - 624 401.

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Date: 20.08.2021

CERTIFICATE OF COMPLETION

This is to certify that Ms. Vijaya Bharathi P student of BE-CSE final year, NPR college of Engineering & Technology, Natham, Dindigul, has successfully completed inplant training from 09.08.2021 to 16.08.2021.

During this period his performance was found good.

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

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Authorized Signatory

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

C3 TECHNOLOGIES
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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: 24.07.2021

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 **04.08.2021 to 18.08.2021** 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.	Anandakumar. A	920819104005	III CSE
2.	Indhumathi. V	920819104015	III CSE
3.	Santhosh Prakash.M	920819104031	III CSE
4.	Sivapriya, R	920819104038	III CSE

We appreciate your interest in our company.

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

NPR COLLEGE OF ENGG. & TECHNOLOGY NATHAM

For C3 TECHNOLOGIES

Managing Director

C3 TECHNOLOGIES
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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: 26.08.2021

CERTIFICATE OF INTERNSHIP TRAINING

This is to certify that **Mr. Anandakumar A** from NPR College Engineering and Technology has successfully completed internship training from **04.08.2021 to 18.08.2021** in our organization.

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

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

NPR COLLEGE OF ENGG. & TECHNOLOGY NATHAM

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: c3technologiesche@gmail.com

Date: 26.08.2021

CERTIFICATE OF IN-PLANT TRAINING

This is to certify that **Ms. Indhumathi V** from NPR College Engineering and Technology has successfully completed internship training from **04.08.2021 to 18.08.2021** in our organization.

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

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

NATHAM

For C3 TECHNOLOGIES

Managing Director

C3 TECHNOLOGIES

[illegible]

Ph: [illegible]

E-mail: [illegible]

Date: 18.08.2021

CERTIFICATE OF IN PLANT TRAINING

This is to certify that Mr. **Santhosh Prakash M** from NPR College Engineering and Technology has successfully completed internship training from **04.08.2021** to **18.08.2021** in our organization.

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

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

For C3 TECHNOLOGIES

Managing Director

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

Date: 26.08.2021

CERTIFICATE OF IN-PLANT TRAINING

This is to certify that **Ms. Sivapriya R** from NPR College Engineering and Technology has successfully completed internship training from **04.08.2021 to 18.08.2021** in our organization.

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

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

NPR COLLEGE OF ENGG. & TECHNOLOGY NATHAM

For C3 TECHNOLOGIES

Managing Director

XPLORE IT CORP
IT SERVICES & BUSINESS SOLUTIONS

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

Date: 21.07.2021

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 **09.08.2021 to 16.08.2021**
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. Divya S , Ms. Indhumathi V, Mr. Srinivash A, Mr. Srivaths Karthick G.**

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

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

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

Date: 30.08.2021

CERTIFICATE OF COMPLETION

This is to certify that **Ms. Divya S** student of BE-CSE third year, NPR college of Engineering & Technology, Natham, Dindigul, has successfully completed internship training from **12.08.2021 to 26.08.2021.**

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.

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Principal
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Natham, Dindigul (Dt), 624 401.

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WWW.XPLOREITCORP.COM

Date: 30.08.2021

CERTIFICATE OF COMPLETION

This is to certify that Ms. Mangala Dharshini R student of BE-CSE third year, NPR college of Engineering & Technology, Natham, Dindigul, has successfully completed internship training from 12.08.2021 to 26.08.2021.

During this period his performance was found good.

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

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COLLEGE OF ENGG. & TECHNOLOGY ★ NPR ★ NATHAM

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N.P.R. College of Engineering & Technology
Natham, Dindigul (Dt) - 624 401.

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

Date: 30.08.2021

CERTIFICATE OF COMPLETION

This is to certify that Mr.Srinivash A student of BE-CSE third year, NPR college of Engineering & Technology, Natham, Dindigul, has successfully completed internship training from 12.08.2021 to 26.08.2021.

During this period his performance was found good.

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

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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

Triflorum

Triflorum Engineering and Business Solutions

Date: 21.02.2022

To

The Principal

NPR College of Engineering & Technology,

Natham-62440, Dindigu l- 624401.

Respected Sir,

Sub: Internship training - Reg.

Ref: NPRCET/OFF/CSE/INT/2021-22 dated on 14.02.2022

With reference to the above, the final year CSE students **Ms. Ruthra.A , Ms. Santhoshini. V, Saraniya. M , Sridhar. K** has been permitted for internship from **02.03.2022** to **15.03.2022** in our organization. Students should submit the bonafide certificate at the time of joining the implant training.

Expecting your kind cooperation in this regard.

Managing Director

Mr.S.Kumaraguru

TRIFLORUM ENGINEERING & BUSINESS SOLUTIONS * CHENNAI-600 087

NPR COLLEGE OF ENGINEERING & 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: 22.03.2022

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Ms. Ruthra 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 **02.03.2022 to 15.03.2022.**

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

We wish her 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 48590065

Triflorum Engineering and Business Solutions

Date: 22.03.2022

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Ms. Santhoshini V**, final year student of BE-Computer science and Engineering, **NPR college of Engineering & Technology, Natham, Dindigul**, has successfully completed Internship in our organization from **02.03.2022** to **16.03.2022**

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

We wish her all the best for the future career.

Managing Director

Mr.S.Kumaraguru

Dr. J.SUNDARARAJAN,
[illegible]
Principal
NPR College of Engineering & Technology
Natham, Dindigul (Dt) - 624 401.

Trifforum Engineering and Business Solutions

Date: 22.03.2022

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Ms. Saranlya M**, final year student of BE-Computer science and Engineering, **NPR college of Engineering & Technology, Natham, Dindigul**, has successfully completed Internship in our organization from **02.03.2022 to 15.03.2022.**

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

We wish her all the best for the future career.

Managing Director
Mr.S.Kumaraguru

CHENNAI-600 087

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

Trifforum Engineering and Business Solutions

Date: 22.03.2022

TO WHOMBOEVER IT MAY CONCERN

This is to certify that Mr. Sridhar K, final year student of BE-Computer science and Engineering, NPR college of Engineering & Technology, Natham, Dindigul, has successfully completed Internship in our organization from 02.03.2022 to 16.03.2022.

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

We wish him all the best for the future career.

S. Kumaraguru
Managing Director
Mr.S.Kumaraguru

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

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10th Jan 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 **24.01.2022 to 06.02.2022.** At the time of joining the students should submit the bonafide certificate.

S. No.	Name of the student	Register Number	Year & Branch
1.	BAVITHRA C	920819104006	III CSE
2.	HIFAYA THAOFEEN M	920819104014	III CSE
3.	THIRUNAVUKKARASAR T	920819104048	III CSE
4.	THIYAGARAJAN S	920819104049	III CSE

Yours Sincerely,
For CMS IT Services Pvt Ltd.,

Authorized Signatory,

CMS IT SERVICES PVT LTD Trichy 620001

NPR COLLEGE OF ENGINEERING & TECHNOLOGY NATHAM

Dr. J. SUNDARARAJAN,
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14th Feb 2022

To Whom So Ever It May Concern

This is to certify that **Ms. Bavithra. C** Department of Computer Science & Engineering, NPR College of Engineering & Technology, Natham, Dindigul has undergone internship training from **24.01.2022 to 06.02.2022** in our organization.

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

She 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 620001

NPR COLLEGE OF ENGINEERING & TECHNOLOGY NATHAM

Dr. J.SUNDARARAJAN,
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Natham, Dindigul (Dt) - 624 401.

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[illegible] Feb 2022

To Whom So Ever It May Concern

This is to certify that **Ms. [illegible] Thaqfeen. M** Department of Computer Science & Engineering, NPR College of Engineering & Technology, Natham, Dindigul has undergone internship training from **24.01.2022 to 08.02.2022** in our organization.

During the period of her training, she had shown keen interest towards learning.

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

We wish her 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.

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14th Feb 2022

To Whom So Ever It May Concern

This is to certify that **Mr. Thirunavakarasar. T** Department of Computer Science & Engineering, NPR College of Engineering & Technology, Natham, Dindigul has undergone internship training from **24.01.2022 to 06.02.2022** in our organization.

During the period of her training, she had shown keen interest towards learning.

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

We wish her future endeavor.

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

Authorized Signatory,

CMS IT SERVICES PVT LTD Trichy 620001

NPR COLLEGE OF ENGINEERING & TECHNOLOGY NATHAM

Dr. J.SUNDARARAJAN,
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14th Feb 2022

To Whom So Ever It May Concern

This is to certify that **Mr. Thiyagarajan. S** Department of Computer Science & Engineering, NPR College of Engineering & Technology, Natham, Dindigul has undergone internship training from **24.01.2022 to 06.02.2022** in our organization.

During the period of her training, she had shown keen interest towards learning.

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

We wish her future endeavor.

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

Authorized Signatory

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N.P.R. COLLEGE OF ENGINEERING & TECHNOLOGY NATHAM

Dr. J.SUNDARARAJAN,
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24th Jan 2022

To

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

Dear Sir,

Sub: Implant training-Reg.

We are pleased confirm that the following listed students are permitted to undergo implant training in our company from **02.02.2022 to 09.02.2022.** At the time of joining the students should submit the bonafide certificate.

S. No.	Name of the student	Register Number	Year & Branch
1.	PRAKASH P	920818104024	IV CSE
2.	SATHANA.S	920818104034	IV CSE
3.	SHRINITHI M	920818104036	IV CSE
4.	VINEETH PANDIAN S	920818104039	IV CSE

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

CMS IT SERVICES PVT LTD Trichy 620001

Authorized Signatory,

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

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16th Feb 2022

To Whom So Ever It May Concern

This is to certify that **Mr. Prakash P,** Department of Computer Science & Engineering, NPR College of Engineering & Technology, Natham, Dindigul has undergone implant training from **02.02.2022 to 09.02.2022** 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 620001

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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28th Feb 2022

To Whom So Ever It May Concern

This is to certify that Ms. Sathana.S, Department of Computer Science & Engineering, NPR College of Engineering & Technology, Natham, Dindigul has undergone Industrial training from 07.02.2022 to 26.02.2022 in our organization.

During the period of her training, she had shown keen interest towards learning.

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

We wish her future endeavor.

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

CMS IT SERVICES PVT. LTD. Trichy 620001

Authorized Signatory,

Dr. A. SUNDARARAJAN, M.E., Ph.D.,
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16th Feb 2022

To Whom So Ever It May Concern

This is to certify that **Ms. Shrinidhi M,** Department of Computer Science & Engineering, NPR College of Engineering & Technology, Natham, Dindigul has undergone implant training from **02.02.2022 to 09.02.2022** in our organization.

During the period of her training, she had shown keen interest towards learning.

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

We wish her future endeavor.

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

CMS IT SERVICES PVT LTD Trichy 620001

NPR COLLEGE OF ENGG & TECHNOLOGY NATHAM

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

Authorized Signatory,

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

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

16th Feb 2022

To Whom So Ever It May Concern

This is to certify that **Mr.Vineethpandian S,** Department of Computer Science & Engineering, NPR College of Engineering & Technology, Natham, Dindigul has undergone implant training from **02.02.2022 to 09.02.2022** in our organization.

During the period of her training, she had shown keen interest towards learning.

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

We wish her future endeavor.

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

Authorized Signatory

CMS IT SERVICES PVT LTD Trichy 620001

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.

Licensee :: Entrust Technoservices Pvt. Ltd.

Triflorum Engineering and Business Solutions

Date: 30.03.2022

To

The Principal

NPR College of Engineering & Technology,

Natham-62440, Dindigul - 624401.

Respected Sir,

Sub: Implant training - Reg.

Ref: NPRCET/OFF/CSE/IPT/2021-22 dated on 23.03.2022

With reference to the above, the third year CSE students **Afhran Nisha A, Janani R, Naveen Kumar S, Surya K** has been permitted for implant training from **06.04.2022 to 13.04.2022** in our organization. Students should submit the bonafide certificate at the time of joining the implant training.

Expecting your kind cooperation in this regard.

Managing Director
Mr.S.Kumaraguru

TRIFLORUM ENGINEERING & BUSINESS SOLUTIONS CHENNAI-600 087

NPR COLLEGE OF ENGINEERING & 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: 20.04.2022

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Ms. Afhran Nisha A**, third year student of BE-Computer science and Engineering, **NPR college of Engineering & Technology, Natham, Dindigul**, has successfully completed Implant training in our organization from **06.04.2022 to 13.04.2022.**

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

We wish her 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.107, Chowdry Nagar, 1st Street, Velacheryakkam, Chennai-600 087. / info@triflorum.com/ www.triflorum.com/ Ph: +91 44 48590065

Trifloruum Engineering and Business Solutions

Date: 20.04.2022

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Ms. Janani R , third year student of BE-Computer science and Engineering, NPR college of Engineering & Technology, Natham, Dindigul, has successfully implant training in our organization from 06.04.2022 to 13.04.2022.

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

We wish her all the best for the future career.

S. Kumar

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.

Triflorum

Triflorum Engineering and Business Solutions

Date: 20.04.2022

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Mr. Naveen Kumar S** , third year student of BE-Computer science and Engineering, **NPR college of Engineering & Technology, Natham, Dindigul**, has successfully completed implant training in our organization from **06.04.2022 to 13.04.2022.**

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

TRIFLORUM ENGINEERING & BUSINESS SOLUTIONS CHENNAI 600 087

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.

Triflorum

Triflorum Engineering and Business Solutions

Date: 20.04.2022

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr. Surya K , third year student of BE-Computer science and Engineering, NPR college of Engineering & Technology, Natham, Dindigul, has successfully completed Implant training in our organization from 06.04.2022 to 13.04.2022.

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

CHENNAI-600 087

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

NPR College of Engineering & Technology

NPR Nagar, Natham, Dindigul - 624401, Tamil Nadu, India.
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai.
An ISO 9001:2015 Certified Institution.
Phone No: 04544- 246 500, 246501, 246502.
Website : www.nprcolleges.org, www.nprcet.org, Email:nprcetprincipal@nprcolleges.org

Ref: NPRCET/OFF/CSE/IV/2021-22 **Date: 16.02.2022**

To

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

Dear Sir,

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

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

I am looking for permission for our second and third-year CSE 71 students along with 4 faculties would like to visit your company for an industrial visit on 25.03.2022 (Friday). This visit is aimed at enhancing their knowledge about software development environment. 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

PRINCIPAL
Dr. J.SUNDARARAJAN,
B.E., M.Tech., Ph.D.,
Principal
N.P.R. 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: 25.02.2022

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-34 and III year-38

Faculties permitted to Visit :4

Reporting date & time :25.03.2022 & 10.30 am

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

For C3 TECHNOLOGIES

Managing Director

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.

NPR

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Natham, Dindigul - 624 401. Web: www.nprcet.org

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

INDUSTRIAL VISIT TO C3 TECHNOLOGIES on 25.03.2022

STUDENTS NAME LIST

YEAR : II **BRANCH : CSE**

S.NO	REGISTER NUMBER	STUDENT NAME	SIGNATURE
1	920820104001	ABINAYA A	
2	920820104002	ANANDARAJ M	
3	920820104003	DEEPIKA V	
4	920820104004	DHARSHANAPRIYA K	
5	920820104007	HARI VIGNESH K	
6	920820104009	JOSHUVA BASKARAN M	
7	920820104010	KABILESH K	
8	920820104011	KALEESWARAN S	
9	920820104012	KARTHIK K	
10	920820104013	KARTHIKEYAN.M	
11	920820104014	KAVIARASAN C	
12	920820104015	KEERTHI S	
13	920820104016	KOWSALYA M	
14	920820104018	LEO T	
15	920820104019	MATHIVANAN.V	
16	920820104020	MUTHULAKSHMI M	
17	920820104021	NAFEELA NASRIN S	
18	920820104022	NAVEEN K	
19	920820104023	NIVETHA K	
20	920820104024	PALANIKUMAR V	
21	920820104025	PONNALAGU N	
22	920820104026	PRADEEP RAJ R S	
23	920820104028	PRIYADHARSHINI M	
24	920820104033	SANJAY H	
25	920820104040	SOWMIYA T	
26	920820104042	SUBBULAKSHMI T	
27	920820104043	SUDHARSAN G	
28	920820104044	SUJIT RAGHAV MM	
29	920820104045	SWATHI M	
30	920820104046	THARVINRAJA S	
31	920820104047	VENKTRAMAN M	
32	920820104048	VIJAYAKUMAR N	
33	920820104049	VINOTH A	

COLLEGE OF ENGG. & TECHNOLOGY NATHAM

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NAAC

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

INDUSTRIAL VISIT TO C3 TECHNOLOGIES on 25.03.2022

STUDENTS NAME LIST

YEAR : III **BRANCH : CSE**

S.No	REGISTER NUMBER	STUDENT NAME	SIGNATURE
1.	920819104001	ABDUL JALIL S	
2.	920819104002	AFHRAN NISHA A	
3.	920819104004	AKASH T	
4.	920819104005	ANANDAKUMAR A	
5.	920819104006	BAVITHRA C	
6.	920819104007	BRAMMA S	
7.	920819104008	DEVA DHARSHINI N	
8.	920819104009	DIVYA S	
9.	920819104011	GUHAN P	
10.	920819104012	GUNA SEKAR J	
11.	920819104013	HARI DEEVAGAN M	
12.	920819104014	HIFAYA THAQFEEN M	
13.	920819104015	INDHUMATHI V	
14.	920819104016	JANANI R	
15.	920819104018	MANGALA DHARSINI R	
16.	920819104020	MOHAMED RIBAK B	
17.	920819104021	MONICA R	
18.	920819104022	MUTHU KUMAR P	
19.	920819104023	NANDHA KUMAR B	
20.	920819104024	NANDHINI S	
21.	920819104025	NAVEEN KUMAR S	
22.	920819104027	POORNIMA DEVI P	
23.	920819104028	PRAVEEN T	
24.	920819104030	SAI PRASANTHY N S	
25.	920819104031	SANTHOSH PRAKASH M	
26.	920819104032	SARANYA R	
27.	920819104033	SATHYA M	
28.	920819104034	SELVAMBIKAI N	
29.	920819104038	SIVAPRIYA R	
30.	920819104041	SRINIVASH A	
31.	920819104042	SRIVATHS KARTHIC G	
32.	920819104043	SUBHASHINI K	
33.	920819104044	SUJITHA P	
34.	920819104045	SURYA K	

NPR COLLEGE OF ENGG. & TECHNOLOGY NATHAM

S.No	REGISTER NUMBER	STUDENT NAME	SIGNATURE
35.	920819104046	THILAGAVATHY V	Thilagavathy
36.	920819104047	THIRISHA P	thirisha
37.	920819104048	THIRUNAVUKKARASAR T	
38.	920819104049	THIYAGARAJAN S	Thiyagarajan.S

Faculty Coordinators :

1. Mr.M.Arockia Irudayaraja, AP/CSE
2. Mrs.Dr.Amudha, AP/CSE,
3. Mrs.R.Vasuki, AP/CSE,
4. Mrs.M.Kalaranj, AP/CSE

HOD/CSE
Dr.K.Ramanan

PRINCIPAL
Dr. J.SUNDARARAJAN,
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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

INDUSTRIAL VISIT SUMMARY REPORT

The second- and third-year students of Computer Science and Engineering from **NPR college of Engineering and Technology** has visited the company **C3 Technologies, Coimbatore** on 25.03.2022. This industrial visit provided students an insight into the real working environment, machines, systems, and interact with highly trained and experienced personnel. This industrial visit helped students to develop their communication skills, presentation skills, logical thinking, listening skills ability and to understand software development life cycle. The objective behind this industrial visit was to make the student from novice to industry – ready professional. The academic education of the college makes the student technically sound but the students are unable to think out of the real working environment. A quality to think differently and innovatively is what most of the companies required. This industrial visit made as a self-confidence booster for the mental and emotional state of students to satisfy industry needs. This industrial visit was completed successfully and majority of the students took active part in all the sessions of the visit. As per our observations, our students had a wonderful experience by enlightening them about the corporate world rules, regulations, ethics and real time working scenarios. Students learned a lot of things that will help in their development and also for the future

Faculty Coordinators :

1. Mr.M.Arockia Irudayaraja, AP/CSE
2. Mrs.Dr.Amudha, AP/CSE,
3. Mrs.R.Vasuki, AP/CSE,
4. Mrs.M.Kalarani, AP/CSE

HOD/CSE
Dr.K.Ramanan

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