## ELLA MARY'S COLLEGE OF ENGINEERIN

Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai and Accredited by NAAC & NBA (Mech & CSE)

Aruthenganvilai, Kallukatti Junction, Azhikal Post, Kanyakumari District - 629 202 DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

### PROJECT LIST 2023-2024

BAT	CH: 2020-2024		Name of the	Title of the Project	
Batch No.	Registration Number	Name of the Student	Supervisor	Work	
	963520104001	Aani Moncy.M		Network security based offline payment using block chain.  Wireless by pass charging system for e- vehicles using darrieus  Revolutionizing waste management with smart pins	
	963520104003	Aashima.A	Dr. A. Selva Reegan		
1	963520104011	Antries Jircy.A			
	963520104023	Divya Dharshini.R			
	963520104002	Aarthi.R	May!   Interior		
	963520104048	Sreeba.S	Dr. Pon Partheeban		
2	963520104050	Tamil.M			
	963520104052	Uvashree.U.V	A PROPERTY OF		
	963520104004	Aathira.S.P	A cont "Sakua"		
	963520104016	Aswathy.G	Mrs. S. Mamitha		
3	963520104040	Rishika.G			
	963520104302	Anila. T	Tank Timetor		
Donald Int.	963520104005	Adlin Abi.R.S	100000 NO.000000	Ev Charging station finder and slot booking	
	963520104017	Aswin.V.S	Mr. Bastin Rogers		
) 4	963520104020	Bibin Kishore.M	Wil. Bushin reagons		
	963520104039	Ratheesh Kumar.R	CONTRACT ADDRESS		
	963520104006	Ajay.R	ADDRESS TO SERVICE	A communication tool to public about government schemes	
	963520104012	Arockia Jesin.J	Manager Section		
5	963520104053	Vinoth.R	Mrs. J. Sunanthini		
	963520104307	Kalaix.K	A CONTRACTOR OF THE PARTY OF TH		

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	963520104015	Aslin.R		Real-Time Surveillance for Road Safety:	
	963520104027	Harish Suresh Kumar.S			
12	963520104041	Roshan Lal.J	Dr. Pon Partheeban	Object Detection	
	963520104312	Vijesh.G		and Compliance Monitoring	
	963520104018	Aswini.P		Delegan and antony	
13	963520104024	Durshika.K.J	Mr. C. Senthil Kumar	Pulmonary artery blockage detection  An Mobile Application for Ambulance booking and	
	963520104054	Vinusha.V.S			
	963520104028	Holin.R.Nino			
14	963520104043	Sahaya Ashik.S	Mr. R. Dinesh		
1	963520104045	Shajan Santosh.A	Wir. R. Diffesh		
	963520104051	Tharun.V		tracking	
Section 1	963520104031	Joevin Stany.L			
Seguida	963520104042	Rufus Jackson.J	Mar C Marritha	Sign language to	
15	963520104044	Sanjai.M.I	Mrs. S. Mamitha	text converter	
	963520104025	Euneak.E			
	963520104035	Nithin.A	avakumari District	Developing an	
	963520104308	Karthikeyan.S		innovative	
16	963520104309	Kishore Kumar.M	Dr. M.Supriya	multimedia and	
	963520104311	Nelson Solomon Fernandes		animation in health care	

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The Electric Vehicle Charging Station Slot Booking System represents an initiative to simplify the charging Station Slot Booking System represents an initiative to simplify the charging Station Slot Booking System represents an III.

Charging Website: Charging Website is designed to offer EV owners the convenience of easily finding charging station charging stations, checking slot availability. This project introduces a centralized booking platform booking platform, allowing users to effortlessly schedule charging sessions in advance. This advance. This system provides real-time updates on slot availability, ensuring accurate info accurate information for users. Beyond addressing current challenges in EV charging infrastructure. infrastructure, this project contributes to the sustainable development of cities. The intuitive into intuitive interface optimizes charging station utilization, minimizing wait times and fostering an efficient, eco-friendly approach to electric vehicle charging. This initiative not only enhances the overall EV charging experience but also aligns with the broader goal of promoting sustainable urban mobility. Furthermore, the system incorporates a slot booking feature, allowing users to reserve charging slots in advance. This functionality not only ensures a designated charging spot upon arrival but also optimizes charging station utilization, minimizing wait times and congestion. Additionally, users can customize preferences such as charging speed and payment methods, enhancing flexibility and convenience. The proposed system not only benefits EV owners but also promotes sustainable transportation by encouraging the adoption of electric vehicles. By streamlining the charging process and improving accessibility, it facilitates the transition to a cleaner and more efficient transportation ecosystem

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Certified that this project report "WAY FUEL: A LOCATION-BASED FUEL STATION FINDER WITH AN ALERT NOTIFICATION" is the bonafide work of "NITHEESH R P (963520104034), ARUN J (963520104013), ANTONY VINO K (963520104303), JOHN DIXON W(963520104306)," who carried out the project work under my supervision.

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WAYFUEL is an innovative mobile application designed to revolutionize the fuel delivery experience by leveraging location-based services and real-time alerts. The application categories application caters to multiple users, providing a user-friendly interface for efficient fuel delivery. Users can easily locate nearby petrol stations within a 10 km radius, ensuring ability to stress the cashy locate nearby petrol stations within a 10 km radio in its ability to streamline the process of fuel procurement. When a user requires fuel, they simply solved it simply select the desired petrol station from the app's interface. Utilizing precise location data, the application identifies the nearest users to the selected petrol station and sends them instant alerts through the app. This alert notification system serves as a dynamic mechanism for connecting users with nearby fuel stations in real time. By promptly notifying users of available fuel sources, WAYFUEL eliminates the hassle of searching for petrol stations and ensures timely refueling. The user experience is paramount in WAYFUEL, as evidenced by its intuitive design and seamless navigation. Through a combination of user-friendly features and advanced technology, the application offers a convenient solution for fuel delivery needs. WAYFUEL redefines the fuel procurement process by integrating location-based services and alert notifications into a user-friendly mobile application. By providing timely access to nearby petrol stations, WAYFUEL enhances convenience, efficiency, and user satisfaction in the realm of fuel delivery.

Keywords: Location-Based Services, Fuel Delivery, Alert Notifications, User-Friendly Interface

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The increasing use of social media during disasters presents an opportunity to leverage this data for real-time disaster response. In this project, we focus on the task of disaster tweet prediction, aiming to automatically identify tweets that are related to disasters. By accurately detecting such tweets, we can improve situational awareness and aid emergency response efforts. Our approach involves utilizing machine learning techniques, particularly natural language processing (NLP), to develop a predictive model. We leverage a dataset of labeled tweets, where each tweet is categorized as either disaster-related or not. We preprocess the text data, including tokenization. removing stop words, and performing word embeddings to represent text semantically. We experiment with various feature engineering techniques to enhance model performance. Furthermore, we explore deep learning models, such as Long Short-Term Memory (LSTM) networks and Transformer-based architectures like BERT, which have demonstrated state-of-the-art results in NLP tasks. These models capture intricate patterns in tweet text and contextual information, potentially improving the prediction accuracy.

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In today's digital era, effective communication between citizens and government entities is crucial for the successful implementation of public schemes and policies. This abstract introduces a cutting-edge communication tool designed to streamline interactions between the public and government authorities, facilitating seamless access to information and services. The proposed platform offers a user-friendly interface with features such as user registration, login, and a personalized home dashboard, ensuring easy navigation and accessibility for citizens. Through the platform, users can conveniently track their tax payments, view payment history, and initiate payments securely. Furthermore, the system provides a simplified process for citizens to apply for government schemes, eliminating bureaucratic hurdles and reducing processing times. Users can submit complaints, provide feedback, and engage in constructive discussions through the addition of comments and viewing of complaints raised by others. On the administrative side, the platform offers an exclusive portal for government officials to manage tax records, monitor user tax contributions, and administer public schemes efficiently. Administrators can log in securely, access their personalized dashboard, and oversee scheme applications and complaint resolutions. Overall, this communication tool serves as a catalyst for transparency, accountability, and citizen engagement in governance. By fostering a direct channel of interaction between citizens and government authorities, it paves the way for informed decision-making, responsive policymaking, and ultimately, the socio-economic development of the nation

Keywords: Citizen-Government Communication, Digital Platform, Public Schemes, Administrative Efficiency

# ANNA UNIVERSITY: CHENNAI 600 025 BONAFIDE CERTIFICATE

Certified that this project titled "A MOBILE APPLICATION USED FOR SIGN LANGUAGE TRANSLATION" is the bonafide work of "SANJAI M I (963520104044), JOEVIN STANY L (963520104031), RUFUS JACKSON J (963520104044), EUNEAK E (963520104025)" who carried out the project under my supervision.

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The Sign Language Translator Application is a groundbreaking project ned to bridge and hearing designed to bridge the communication gap between the deaf and hearing communities Daniel Communication gap between the deaf and hearing communities. Developed using Java for backend operations and Jupyter Notebook for interactive data analysis, this application utilizes cutting-edge technologies to translate sign language gestures into text or spoken language. This project involves several key development into text or spoken language. This project model development into text or spoken language. This project model development, integration, frontend design, testing, and deployment. Leveraging technologies III. technologies like OpenCV for image processing, TensorFlow for machine learning, Flask for API development, and Jupyter Notebook for data exploration, the application. application offers a comprehensive solution for sign language translation. Throughout the development process, challenges such as obtaining high-quality data, training accurate models, and achieving real-time processing were encountered. However, and through iterative development problem-solving, these challenges were effectively addressed, resulting in a robust and efficient translation system. Looking ahead, the Sign Language Translator Application is poised for further enhancements and expansions. Future developments may include support for multimodal translation, gesture synthesis for lifelike representations, additional accessibility features, and continuous learning capabilities to improve performance over time. The Sign Language Translator Application represents a significant advancement in assistive technology, empowering individuals with hearing impairments to communicate more effectively and participate fully in society. With ongoing improvements and refinements, this application has the potential to make a lasting and positive impact on the lives of millions worldwide

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This paper presents a review of the existing charging technologies for followed by a EVs, followed by a presentation of a proposed solution based on several distributed transdistributed transmitter coils supplied by parallel resonant inverters sequentially enough sequentially energized depending on the position of receiver coil mounted on the vehicle. This on the vehicle. This By using this technique, Inductive Power Inductive Power Transfer (Transfer Power Transfer (IPT) Technology employs this technique. A ground-breaking technic breaking technique called magnetic induction wireless bypass charging aims to do sweet the aims to do away with the requirement for physical connections between the charging gadget and the charger. Power is wirelessly delivered from the charging station to the smartphone via the principle of magnetic induction, making charging easy and convenient. With this method, energy is transferred between coils installed in the charging station and the receiving device using electromagnetic fields. The coils of the device resonate at the same frequency This trend is mostly the result of the EU Air Quality Directive of 2008's strict CO2 footprint limitations, which internal combustion vehicles are unable to meet. These regulations cover not just light cars but also trucks and buses, which are significant producers of particulate matter (PM) and nitrogen oxide pollution in urban areas. In the near future, the widespread usage of EVs will significantly reduce pollution in large cities, but for the time being, prospective customers are seriously concerned about the limited number of battery charging stations and range anxiety when it is near the charging station. This causes a current to flow through the receiver coil, charging the gadget's battery. The general concept of wireless bypass charging is to give consumers seamless experiences by enabling them to charge their gadgets without being constrained by cords or plugs. This invention has the potential to revolutionise a number of sectors, including consumer electronics, automotive, and healthcare, by providing increased mobility, convenience, and efficiency in the waythat gadgets are powered. Tach Ph.D.

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Certified that this project titled "SMCE NEXUS VOICE ENABLED CAMPUS VIRTUAL ASSISTANT" is the bonafide work of "AKNEL REFANCY U (963520104008), BERLIN NIMISHA JIO F (963520104019), DHUSNY RAJ P (963520104022), SHERIN S (963520104046)" who carried Out the project under my supervision.

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SMCE-NEXUS is an innovative platform designed to streamline information access and analysis for users seeking insights about the SMCE campus. Through campus. Through sophisticated data analysis algorithms and intuitive user interfaces. SMOR interfaces, SMCE-NEXUS offers a seamless experience for querying and retrieving converses. retrieving campus-related information. Whether users are searching for event schedules for the schedul schedules, facility details, or academicresources, SMCE-NEXUS provides timely navigation and campus and accurate engagement.SMCE-NEXUS integrates voice recognition technology to offer a hands-freeandintuitiveuserexperience. By employing Python's voice recognition modules, users can effortlessly interact with the platform, posing queries and receiving responses without the need for manual input. Python's face recognition capabilities, SMCE-NEXUS fortifies security measures and tailors user experiences. By employing Python's face recognition libraries, the platform verifies user identities, granting access to personalized information and features. Utilizing HTML, SMCE-NEXUS delivers an intuitive and visually appealing website interface. Through HTML's flexible structure and markup capabilities, the platform presents information in a clear and organized manner, enhancing user navigation and comprehension.

Keywords: SMCE-NEXUS, Voice recognition, Web App, Facerecognition

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Certified that this project titled A MULTI - PLATFORM APPLICATION FOR AIDING DISCIPLINARY ACTION is the bonafied work of "AKIL, M (963520104007), JOSHUA J (963520104032), JOEL JOHNSON (963520104305) & JIBIN R (963520104310)" who carried out the project under my supervision.

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The application for applying fines as part of disciplinary action in a college environment serves as a digital tool to effectively manage and enforce institutional policies. This application provides a user-friendly interface for college administrators to log disciplinary incidents, assess appropriate fines, and communicate penalties to students or staff members. Key functionalities include a centralized database to store infraction records, automated fine calculation based on predefined criteria, and real-time notifications to notify offenders of their penalties. By integrating technology into the disciplinary process, the application aims to promote accountability, deter misconduct, and uphold the integrity of the college's code of conduct. Additionally, the application offers features for tracking fine payments, generating reports for administrative review, and maintaining transparency in disciplinary procedures. Overall, this application serves as an essential tool for maintaining a safe and respectful learning environment within the college community.

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Certified that this project report "AI ASSISTED APP FOR FORMERS O ON AGRICULTURAL PRACTICES AND SUGGESTIVE CROPS" is the bonafide work of "AANI MONCY.M (963520104001), AASHIMA.A (963520104011) , ANTRIES JIRCY.A (963520104001) , DIVYA DHARSHINI.R (963520104003)" who carried out the project work under my

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This project involves the development of a brand new design was projected for the effective classification of plant diseases. The loss of food is primarily attributed the development of a brand new desired in primarily attributed the classification of plant diseases. is primarily attributed to contaminated crops, that reflexively decreases the speed of devolver speed of development, the shortage of air circulation causes parcel of land for insects to beat this, continuous observance of crops is required. the power to me the plants's power to speedily discover and report infectious diseases plants's predominate. predominate to reducing the scale and length of the happening. This analysis involved analysis involves a brand new approach to model identification of plants diseases growth exploitation giant, convolution networks, supported the classification of the image. The dataset used here consists of many kinds of plants of each affected and healthy, and every one these pictures square measure collected from varied freely obtainable sources and manually. a brand new CNN model was trained and tested. our objective is to recommend an answer for observance the plant and detective work the disease and disease at early stage. All necessary steps were taken to include this malady recognition model, starting with the gathering of pictures to form details and supply resolution with individual malady.

Keywords: Android application, Solutions, Artificial Intelligence, Plant diseases detection, image acquisition, image segmentation, features extraction.

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project involves the development of a method for This implementing AR image tracking in a 3D environment using Unity, Vusoria, and Blender. The integration of these technologies allows for immersive AD immersive AR experiences where virtual objects interact with real-world images. Own images. Our approach begins with the selection of an image as the target for AR tracking. This image serves as the anchor for virtual content placement. Unity provides the platform for creating and managing the AR scene, while Vuforia handles image recognition and tracking. Blender is utilized for creating 3D models and animations to be displayed in the AR environment. These models are imported into Unity and anchored to the tracked image. Unity's scripting capabilities enable interactivity and dynamic behavior of the virtual objects. The result is a scamless AR experience where users can view and interact with 3D objects overlaid onto real-world images in real-time. This technology has vast applications in fields such as education, gaming, marketing, and simulation.

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### BONAFIDE CERTIFICATE

Certified that this project titled "AN MOBILE APPLICATION USED FOR AMBULANCE BOOKING AND TRACKING" is the bonafide work of "SHAJAN SANTOSH A (963520104045), SAHAYA ASHIK S (963520104043), HOLIN R NINO (963520104028), THARUN V (963520104051)" who carried out the project under my supervision.

SIGNATURE 5124.

Dr. F. R SHING MALAR M. Tech, Ph.D.,

myster.

SIGNATURE

Mr. R. Dinesh M.E.,

HEAD OF THE DEPARTMENT

Professor and Head,

Department of Computer Science

and Engineering,

Stella Mary's College of Engineering,

Aruthenganvilai,

Zhikal post,

Kanyakumari District

SUPERVISOR

Associate Professor,

Department of Computer Science

and Engineering,

Stella Mary's College of Engineering,

Aruthenganvilai,

Azhikal post,

Kanyakumari District

Submitted for the Project Report viva-voce Examination held on 13/05/2024.

at Stella Mary's College of Engineering, Aruthenganvilai.

INTERNAL EXAMINER SI MY MALAR M. Tech., Ph.D. EXTERNAL EXAMINER Head of til Department

Department of Computer Science & Engineering Stelle Mary's Coffege of Engineering Azhikkal Post

Karlyekumar, District - 629 202

The timely arrival of emergency medical services (EMS) is a crucial determinant of patient outcomes during critical situations. Traditional methods of requesting ambulance assistance often involve uncertainties and delays that can be detrimental. This project aims to address these challenges through the development of a comprehensive ambulance tracking mobile application built using the Flutter framework. The proposed application offers a streamlined solution for both patients and ambulance drivers to improve the efficiency and speed of emergency response. Integrating the Google Maps API, the app provides real-time location tracking and intelligent route navigation features. Users can easily view nearby ambulances, send emergency requests directly through the app, and receive regular updates on the estimated time of arrival (ETA) of the responding ambulance. To enhance the dispatch process, the system incorporates an algorithm that optimizes ambulance selection based on patient location and potential traffic conditions.

The ambulance driver app is designed with a focus on efficient task management. Drivers receive timely notifications of incoming requests, along with the ability to accept or reject them based on availability. The integrated maps provide optimized routes to the patient's location. Importantly, drivers have the means to update their status within the app, ensuring users are kept updated on the progress of their ambulance.

Secure data handling is a top priority within the application's design. Sensitive patient information, location history, and all app-server communications are protected through industry-standard encryption protocols. User authentication and role-based authorization mechanisms further safeguard the system against unauthorized access.

Dr. F.R. St. INY MALAR, M. Tech., Ph.D.,
Head of the Department
Department of Computer Science & Engineering
Mary's College of Engineering

# ANNA UNIVERSITY: CHENNAI 600 025 BONAFIDE CERTIFICATE

Certified that this project report "PULMONARY ARTERY BLOCKAGE DETECTION" is the bonafide work of "ASWINI. P (963520104018), DURSHIKA. K. J(963520104024), VINUSHA. V.S (963520104054)" who carried out the project work under my supervision.

SIGNATURE STOLA

DF. F.R. SHINY MALAR M.Tech, Ph.D., HEAD OF THE DEPARTMENT

Professor and Head

Department of Computer Science & Engineering,

Stella Mary's College of Engineering

Aruthenganvilai

Azhikal post,

Kanyakumari District

SIGNATURE

Dr. F.R. SHINY MALAR M. Tech, Ph.D.,

**SUPERVISOR** 

Professor and Head

Department of Computer Science & Engineering,

Stella Mary's College of Engineering

Aruthenganvilai

Azhikal post,

Kanyakumari District

Submitted for the Project Report viva-voce Examination held on..13.-0.5-.a.024

INTERNAL EXAMINER

EXTERNAL EXAMINER

Dr. F.R. St. M. Tech., Ph.D.,
Head of H. Department
Department of Computer Science & Engineerin

Stella Mary's College of Engineering Aruth, 285 - 150, Azhikkal Post Kanyekoman District - 629 202

This project explores the application of Machine Learning (ML) in detecting pulmonary artery blockage using Python. Pulmonary artery blockage, a critical condition, requires prompt diagnosis for effective treatment. Traditional methods for detection often lack accuracy and efficiency. We propose a novel approach utilizing ML algorithms to analyze medical imaging data. The dataset consists of pulmonary angiography images, processed and segmented for feature extraction. Various ML models, including Convolutional Neural Networks (CNNs) and Support Vector Machines (SVMs), are trained and evaluated. Performance metrics such as accuracy, sensitivity, and specificity are assessed. Our results demonstrate the effectiveness of ML in detecting pulmonary artery blockage with high accuracy, offering a promising tool for early diagnosis and intervention, potentially saving lives. This approach could enhance existing diagnostic methods, providing clinicians with valuable decision support in managing pulmonary arterial conditions.

Dr. F.R. SI INT MALAR, M.Tech., Ph.D.,
Head of the Department
Department of Computer Science & Engineering
Stella Mary's College of Engineering
Mary's College of Engineering
Kanyanumari District - 629 202

### ANNA UNIVERSITY: CHENNAI 600 025

### BONAFIDE CERTIFICATE

Certified that this project report "ELECTRONIC HEALTH RECORD MANAGEMENT WITH TWO FACTOR AUTHENTICATION USING BLOCKCHAIN" is the bonafide work of "ASHIKA.M [963520104014], MINISHA.P [963520104033], PRIDNI.M [963520104037], RAHINI.I [963520104038]" who carried out the project

work under my supervision.

Dr.F.R. SHINN MALAR M. Tech, Ph.D.,

HEAD OF THE DEPARTMENT

Professor and Head

Department of Computer Science

and Engineering,

Stella Mary's College of Engineering,

Aruthenganvilai,

Azhikal Post,

Kanyakumari District

SIGNATURE

Dr.A. SELVA REEGAN M.E,Ph.D.,

**SUPERVISOR** 

Associative Professor

Department of Computer Science

and Engineering,

Stella Mary's college of Engineering,

Aruthenganvilai,

Azhikal Post,

Kanyakumari District

Submitted for the Project Viva-Voce examination held on 13:05:2024

INTERNAL EXAMINER

EXTERNAL EXAMINER

Dr. F.R. St in MANALAR, M. Tech., Ph.D.,
Head of th Department
Department of Computer ficience & Engineering
Stella Mary's College of Engineering
Aruth, Pkanvilai, Azhikkal Post
Kanyakumari District - 629 202

Blockchain-Based Electronic Health Record Management with Two-Factor Authentication" project presents a practical and innovative solver. and innovative solution to the challenges of medical data security. This project presents project presents a solution by combining the power of blockchain technology with a solution by combining the power of mechanism technology with a sophisticated two-factor authentication (2FA) mechanism to create a company to create a comprehensive and secure environment for managing electronic health records. In the health records. In this system, patients, doctors, and secure cloud server interact seamless. interact seamlessly, ensuring the privacy, security and transparency of electronic health is electronic health information. The project begins with user registration and authorization authorization, where patients and doctors undergo a robust authentication process facilitated by the cloud server. Two-Factor Authentication (2FA) enhances login security, providing a foundation for trust in the system. Patients can initiate key requests for data encryption, and the cloud server, acting as a key manager, securely generates encryption keys, fortifying the protection of healthcare records. The blockchain, with its decentralized and immutable ledger, ensures the integrity of patient records, offering transparency across the entire healthcare network.

> Dr. F.R. St INY MAT AR, M. Tech., Ph.D., Head of the Department Department of Computer Science & Engineerin Stell Mary Jollege of Engineering

> > Andikkat Post Kanyakuman District 029 202

## ANNA UNIVERSITY: CHENNAI 600025

### BONAFIDE CERTIFICATE

Certified that this project titled "REAL-TIME SURVEILLANCE FOR ROAD SAFETY: OBJECT DETECTION AND COMPLIANCE MONITORING" is the bonafide work of "ASLIN R (963520104015), HARISH SURESH KUMAR (963520104027), ROSHAN LAL J (963520104041), VIJESH G (963520104312)" who carried out the project under my supervision.

SIGNAPURE

Dr. F. R SHINY MAR M. Tech, Ph.D.,

HEAD OF THE DEPARTMENT

Professor and Head

Department of Computer Science

and Engineering,

Stella Mary's College of Engineering,

Aruthenganvilai,

Azhikal post,

Kanyakumari District

SIGNATURE

Dr. PON. PARTHEEBAN M.E., Ph.D.,

SUPERVISOR

Associate Professor

Department of Computer Science

and Engineering,

Stella Mary's College of Engineering,

Aruthenganvilai,

Azhikal post,

Kanyakumari District

Submitted for the Project Report viva-voce Examination held on 13.5. 2024.

at Stella Mary's College of Engineering, Aruthenganvilai.

INTERNAL EXAMINER

EXTERNAL EXAMINER

Dr. F.R. Struck MALAR, M.Tech., Ph.D., Head of II Department

Department of Computer Science & Engineering Stella Mary's College of Engineering Fruth, skanvilai, Azhikkai Post

Kanyakumari District - 629 202

Road safety is a critical concern worldwide, with two-wheeler violations is significant risks. posing significant risks to riders and other road users. This project presents a comprehensive real-time comprehensive real-time surveillance system for monitoring and detecting road safety violations by two safety violations by two-wheelers using state-of-the-art computer vision techniques.

The proposed approximately a The proposed approach leverages the powerful YOLOv8 object detection architecture to account architecture to accurately identify and localize two-wheelers, riders, multimobile devices, and license plates in video streams. The system employs a multitask learning strategy, where a single deep neural network is trained to simultaneously details. simultaneously detect and classify multiple objects of interest. Post-processing algorithms analysis algorithms analyze the spatial and contextual relationships between detected objects to identify and to identify specific violations, such as lack of helmet usage, triple riding, and distracted driving. distracted driving due to mobile phone usage. To ensure real-world applicability, the system is designed for seamless integration with existing traffic monitoring infrastructure, enabling real-time violation detection and automated reporting to relevant authorities. Extensive experiments on diverse datasets demonstrate the system's robustness and efficiency, achieving state-of-the-art performance in detecting road safety violations by two-wheelers. The proposed solution offers a scalable and cost-effective approach to improving road safety, with the potential to significantly reduce accidents and casualties involving two-wheelers. This project contributes to the field of computer vision and intelligent transportation systems by presenting a novel application of deep learning object detection for enhancing road safety compliance monitoring.

Keywords: Road safety, two-wheeler violations, real-time surveillance, object detection, YOLOv8, computer vision, deep learning, multi-task learning, traffic monitoring, intelligent transportation systems

> Dr. F.R. in I may MALAR, M. Tech., Ph.D.,
> Flead of it Department
> Department of Computer Science & Engineerin Stelle Mary's College of Engineering Hrun, Kanedal Azhikkai Rost Kanyakunan District . 2202

### BONAFIDE CERTIFICATE

Certified that this project report "DISASTER TWEET PREDICTION" is the bonafide work of "ANDREA C. (963520104010), JINCY A. (963520104029), JOEL XAVIER (963520104030), POOJA J.P. (963520104036)" who carried out the project work under my supervision

Dr. F. R. SHINY MALAR M. Tech, Ph.D.,

HEAD OF THE DEPARTMENT

Professor and Head

Department of Computer Science and Engineering,

Stella Mary's College of Engineering,

Aruthenganvilai,

Azhikal post,

Kanyakumari district

Dr. F. B. SHIN YMALAR M. Tech, Ph.D.

SUPERVISOR

Professor and I-lead

Department of Computer Science and Engineering,

Stella Mary's College of Engineering,

Aruthenganvilai,

Azhikal Post,

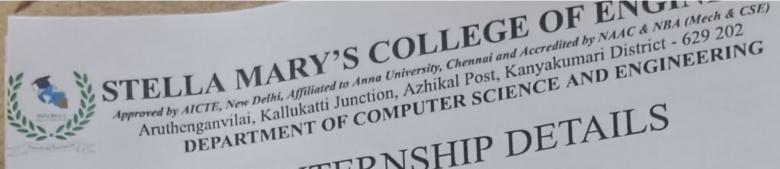
Kanyakumari District

Submitted for the Project Report viva-voce Examination held on 13-05-24

INTERNAL EXAMINER

EXTERNAL EXAMINER

Dr. F.R. Study MALAR, M. Tech., Ph.D.,
Head of H. Department
Department of Computer Science & Engineering
Stella Mary's College of Engineering
Aruti. Ranvilai. Azhikkal Post
Kanyakumari District - 629 202



INTERNSHIP DETAILS

2023-2024

			2023-20		Duration
				Student Name	24.07.2023 to 31.10.2023
	SL.	Sem/ Year	Internship Details	Sanjai M I	07.02.2024 to 14.04.2024
+	1	S8	11.22	Nelson Solomon Fernandes	07.02.2024 to 14.04.2024
r	2	S8	Oracuz Infotech Private Line	Aswini P	07.02.2024 to 14.04.2024
1	3	S8	Oracuz Infotech Private Lmt	Durshika K J	07.02.2024 to 14.04.2024
7	4	S8	Oracuz Infotech Private Lmt Oracuz Infotech Private Lmt	Minisha	07.02.2024 to 14.04.2024
1	5	S8	Oracuz Infotech Private Lmt Oracuz Infotech Private Lmt	Ashika M	07.02.2024 to 14.04.2024
	6	S8	Oracuz Infotech Private Lmt Oracuz Infotech Private Lmt	Adlin Abi R S	29.02.2024 to 28.03.2024
	7	S8		A K Infopark	Mar 4, 2024
-	8	S8	Albert G Feathers softwares	Uvashree U V	Mar 4, 2024
-	9	S8 S8	Facthers softwares	Aslin R  Joel Johnson	07.02.2024 to 07.08.2024
-	11	S8	Srishti Innovative Computer Systems, Technopark	Aslin R	15 days
	12	S8	Clovion Tech Solution Private Lmt	Andrea C	15 days
	13	S8	Clovion Tech Solution Private Lmt	Subitha S K	15 days
	14	S8	Clovion Tech Solution Private Lmt	Adhil Ahamed J	15 days
	15	S6	Clovion Tech Solution Private Lmt	Karthika Devi M	15 days
	16	S6	Clovion Tech Solution Private Lmt	Karuppasamy K	15 days
	17	S6	Clovion Tech Solution Private Lmt	Thanya S	15 days
	18	S6	Clovion Tech Solution Private Lmt		

STELLA MARY'S COLLEGE OF ENGINEERING

Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai and Accredited by NAAC & NBA (Meets & CSE)

Aruthenganvilai, Kallukatti Junction, Azhikal Post, Kanyakumari District - 629 202

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

19	S6	Clovion Tech Solution Private Lmt	Kingshiya K S	15 days
20	S6	Clovion Tech Solution Private Lmt	Nathim Khan	15 days
21	S4	Srishti Innovative Computer Systems, Technopark	R Asmika	04.03.2024 to 09.03.2024
22	S4	Srishti Innovative Computer Systems, Technopark	Akasni Brutshiba	04.03.2024 to 08.03.2024
23	S4	Rexknar Creative Solutions	Mohamed Shahid S	February 2024 to March 2024
24	S4	Rexknar Creative Solutions	Ajai Kumar R	February 2024 to March 2024



Date: Nov 15 2023

### TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr.Sanjai M. I has successfully completed a 3-month internship at Mitz & Fritz Private Limited. The internship commenced on July 24, 2023 and concluded on Oct 31, 2023. During this period, Sanjai M. I served as Junior developer at Mitz & Fritz Private Limited. On behalf of Mitz & Fritz Private Limited, we extend our congratulations to Mr.Sanjai M. I for the successful completion of the internship program. We commend your dedication, hard work, and enthusiasm throughout the internship period.

**Authorized Signatory** 

Nisanth SR

Project Manager

Mitz & Fritz Private Limited



91 808 619 4845 www.oracuz.c

Angeline Building, Near Anadial Hospital, Thiruvananthapuram

Dear Nelson,

Hope you are going well.

On behalf of Oracuz Infotech Private Limited, we are excited to extend a confirmation to Ms. Nelson Solomon Fernandes from Stella Mary's College of Engineering for UI/UX Designing Internship with in our organization. This position is scheduled to begin from 07-02-24 to 14-04-24 and will be 3 months internship opportunity.

We would like to inform you that your registration process is completed.

Please let we know if you need any kind of further information.

For Oracuz Infotech Pvt Ltd

HR Department



+91 994 857 1797

info@oracuz.com www.oracuz.com Angeline Building, Near Anadial Hospital, Thiruvananthapuram

Dear Aswini,

Hope you are going well.

On behalf of Oracuz Infotech Private Limited, we are excited to extend a confirmation to Ms. Aswini.P from Stella Mary's College of Engineering for Python Django Internship with in our organization. This position is scheduled to begin from 07-02-24 to 14-04-24 and will be 3 months internship opportunity.

We would like to inform you that your registration process is completed.

Please let we know if you need any kind of further information.

For Oracuz Infotech Pvt Ltd

HR Department

061





Dear Durshika.

Hope you are going well.

On behalf of Oracuz Infotech Private Limited, we are excited to extend a confirmation to Ms. Durshika K.J from Stella Mary's College of Engineering for Python Django Internship with in our organization. This position is scheduled to begin from 07-02-24 to 14-04-24 and will be 3 months internship opportunity.

We would like to inform you that your registration process is completed.

Please let we know if you need any kind of further information.

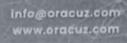
For Oracuz Infotech Pvt Ltd

**HR** Department

06







Angeline Building, Near Anadial Hospital, Thiruvananthapuram

Dear Minisha,

Hope you are going well.

On behalf of Oracuz Infotech Private Limited, we are excited to extend a confirmation to Ms. Minisha from Stella Mary's College of Engineering for Python Django Internship with in our organization. This position is scheduled to begin from 07-02-24 to 14-04-24 and will be 3 months internship opportunity.

We would like to inform you that your registration process is completed.

Please let we know if you need any kind of further information.

For Oracuz Infotech Pvt Ltd

HR Department

360



+ \$1 894 657 1787 Info@oracuz.com Angeline Building, Near Anadla + 81 808 618 4845 www.oracuz.com Pospital, Thiruvananthapuram

Dear Ashika,

Hope you are going well.

On behalf of Oracuz Infotech Private Limited, we are excited to extend a confirmation to Ms. Ashika M from Stella Mary's College of Engineering for Python Django Internship with in our organization. This position is scheduled to begin from 07-02-24 to 14-04-24 and will be 3 months internship opportunity.

We would like to inform you that your registration process is completed.

Please let we know if you need any kind of further information.

For Oracuz Infotech Pvt Ltd

HR Department

200





Dear Adlin,

Hope you are going well.

On behalf of Oracuz Infotech Private Limited, we are excited to extend a confirmation to Ms. Adlin Abi R.S from Stella Mary's College of Engineering for UI/UX Designing Internship with in our organization. This position is scheduled to begin from 07-02-24 to 14-04-24 and will be 3 months internship opportunity.

We would like to inform you that your registration process is completed.

Please let we know if you need any kind of further information.

For Oracuz Infotech Pvt Ltd

HR Department



## Certificate of Internship

• • THIS CERTIFICATE IS PROUDLY PRESENTED TO

ALBERT G

to 28 MAR 2024 in the field of UT/UX DESIGN

DATE DATE







### Internship Letter

Date: 27.02.2024 Name: Uvashree UV

College Name: Stella Mary's College of Engineering

Dear Uvashree,

Sub: Internship Confirmation for Uvashree UV

We are elated to offer you an internship opportunity at Feather Softwares. This internship is an exciting opportunity for you to gain valuable experience and contribute to our dynamic team.

Kindly review the key details of your internship:

- Internship Details: Front End Development

Location: Nagercoil
Duration: 1 – 3 months
Start Date: March 04, 2024

During your internship, you will be working closely with our Front End Devlopment team. Your role will provide hands-on experience in Front End Development and the chance to demonstrate your skills and dedication.

We are excited about the potential you bring and the bright future ahead. We hope this internship will be a stepping stone towards a rewarding career.

Kindly sign the internship letter as a token of acknowledgment and email us a softcopy at the earliest.

Kind regards,

- Sprekhaj.

HR Feather Softwares Signature

Candidate's





#### **Internship Letter**

Date: 27.02.2024 Name: Aslin R

College Name: Stella Mary's College of Engineering

Dear Aslin R,

Sub: Internship Confirmation for Aslin R

We are elated to offer you an internship opportunity at Feather Softwares. This internship is an exciting opportunity for you to gain valuable experience and contribute to our dynamic team.

Kindly review the key details of your internship:

- Internship Details: MERN Developer

- Location: Nagercoil

- **Duration:** 1-3 months

- Start Date: March 04, 2024

During your internship, you will be working closely with our MERN Stack Development team. Your role will provide hands-on experience in MERN Stack Development and the chance to demonstrate your skills and dedication.

We are excited about the potential you bring and the bright future ahead. We hope this internship will be a stepping stone towards a rewarding career.

Kindly sign the internship letter as a token of acknowledgment and email us a softcopy at the earliest.

Kind regards,

HR Feather Softwares Signature

Candidate's



### Srishti Innovative Educational Services Pvt. Ltd. REG. NO.: U80300KL2016PTC047381, GST: 32AAXCS9370D1ZX

TC 100/3824-3, Perks Perumpada, Opp. Technopark Main Gate, Kazhakkuttam, Trivandrum-695582

22<sup>nd</sup> November 2023

Joel Johnson

Princy cottage, Aithottuva, West Kallada (P.O) Kollam, Kerala 691500

Subject: Appointment as a 'Mern Stack Trainee Programmer'

Dear Joel Johnson,

Greetings from Srishti Innovative!!

Congratulations, Mr./Ms. Joel Johnson, from, Princy cottage, Aithottuva, West Kallada (P.O) Kollam, Kerala 691500. Who have pursuing their Bachelor of Engineering in Computer Science and Engineering from Anna University have been selected for the post of 'Mern Stack Trainee Programmer' with reference to your application.

Srishti Innovative Computer Systems is pleased to offer you an Internship in Python Data Science for a period of 6 months (i.e., from 07th February 2024 to 07th August 2024). Your internship becomes effective on 07/02/2024. Your work location will be Srishti Innovative Computer Systems, 1st floor, Leela Info Park, Technopark campus, Triyandrum.

As an intern, you will be required to abide by the rules and regulations of Srishti Innovative and any non-observance to the rules, policies or procedures is subject to strict disciplinary actions. After the technical induction period of 60 days and during the following duration of 60 days you will not be eligible for a stipend/ Incentive. Srishti Innovative does not hold any commitment towards this.

If you agree with the above conditions, please indicate your acceptance by signing the second copy of this letter and return it to the office. The original of this letter is attached for your records.

Manager

Srishti Innovative Computer Systems

1st floor, Leela Info Park,

For Monisha

Technopark campus, Trivandrum

Joel Johnson

Princy cottage, Aithottuva, West Kallada (P.O) Kollam,

Kerala 691500.

### Srishti Innovative Educational Services Pyt. Ltd.

REG. NO.: U80300KL2016PTC047381, GST: 32AAXCS9370D1ZX TC 100/3824-3, Perks Perumpada, Opp. Technopark Main Gate, Kazhakkuttam, Trivandrum-695582

Following terms and conditions will be applicable:

- 1. Your appointment will be on probationary basis.
- 2. The internship period is Four months from the date of joining. The duration is from 07th February 2024 to 07th August 2024.
- 3. During this period you will be provided with training and based on the evaluation you will be shifted to corresponding departments according to the discretions of the score you have gained while your evaluation.
- 4. During the technical induction period of 60 days you will not be eligible for any salary or stipend. If your training period is extended from 60 days, based on your performance, then that period will be compensated from your work period in the second half of the internship period.
- 5. Your job is transferable, and you can be posted to any branch office within the state.
- 6. After the successful completion of the internship period your service will be confirmed at the discretions of the management.
- 7. The present service rules of the Srishti Innovative Pvt. Ltd. will be applicable to this appointment.
- 8. The authority of Srishti Innovative Pvt. Ltd. Holds the right to discharge you without showing any cause.
- 9. Documents to be presented are: -
  - 1. Print out of your resume.
  - 2. Original Certificates (+2 / degree)
  - 3. 2 passport size photographs.
- 10. Your appointment will be effective from the date of joining.
- 11. Dress code should be strictly followed.

All employees are expected to be formally dressed during office hours. The following dress code is prescribed for all the employees working in Srishti Innovative. Penalty for not meeting the dress code is a fine of Rs 150. If upon request employees are not paying the fine then the subsequent amount will be deducted from the salary.

### Srishti Innovative Educational Services Pvt. Ltd.

REG. NO.: U80300KL2016PTC047381, GST: 32AAXCS9370D1ZX TC 100/3824-3, Perks Perumpada, Opp. Technopark Main Gate, Kazhakkuttam, Trivandrum-695582

Men: Formal Trousers, Full/ Half shirts tucked in (Light colors preferred, please avoid shirts with large prints), leather shoes (casual shoes, sports shoes, sneakers, sandals, are strictly not allowed) (Monday through Thursday)

Friday & Saturday: Business Casuals, (Jeans, T-shirt)

Women: Salwar Kameez, Sarees, Formal trouser and Shirts or Kurtis (knee length) (No Deep cut tops, high cut churidar /kurta slit, leggings with short tops and it is compulsory to wear dupatta/ stole with tight tops.

Friday & Saturday: Business Casuals, Jeans, T-shirt, casual tops.

- 12. Leaves should be informed prior to the reporting authority.
- 13. Taking leaves without any prior information will lead to immediate termination of the candidate without any prior information.
- 14. Trainees will be provided with company email id and Skype id, which should be kept as confidential.
- 15. Trainees are requested not to change the password of company email as well as the company Skype id.
- 16. Trainees should attend the meetings scheduled without any fail.
- 17. Performance analysis will be done in various steps during your trainee period, any kind of negligence to attend the evaluation process without any genuine reason will be considered as the irresponsibility of the candidate and the candidate can be terminated from the trainee position.
- 18. Trainees once selected as Junior Programmers, the terms and conditions with Srishti will be discussed at the time of joining.
- 19. Trainees are requested to wear their ID cards once they are allotted.
- 20. Violation of any above-mentioned action will affect the performance of the Trainee.
- 21. Trainees are requested to communicate all the information via email.
- 22. Once Trainees are terminated after their Trainee duration, they are requested to return their ID cards to the authority.



Srishti Innovative Educational Services Pvt. Ltd.

REG. NO.: U80300KL2016PTC047381, GST: 32AAXCS9370D1ZX TC 100/3824-3, Perks Perumpada, Opp. Technopark Main Gate, Kazhakkuttam, Trivandrum-695582

- 23. Trainees are requested to communicate their concerns, leave requests via email to campusadmin@srishtiinnovative.com.
  - 24. Daily updates of the task done should be sent to campusadmin@srishtiinnovative.com without any fail.



Date: 25-03-2024

Aslin .1.6/29 B. Pattarivilai, Thakkulam Post.

Subject: Offer of Internship with Clovion Tech Solutions Pvt. Ltd.

Dear Candidate,

We are pleased to extend this offer of internship to you following your successful participation in the Skill Hunt - 2024 recruitment event conducted on March 25, 2024.

Congratulations on being selected to participate in our 15-days free internship program at Clovion Tech Solutions Pvt. Ltd. This internship is designed to provide you with hands-on experience and exposure to various aspects of our organization.

Internship Details:

Duration: 15 days

Department: .. WEB ... DEVELOPMENT

Location: Trivandrum/Azhagiyamandapam

During your internship, you will have the opportunity to work closely with our team of professionals, gaining valuable insights into the industry and enhancing your skills. As a valued member of our team, you will be provided with necessary resources, mentorship, and support to ensure a productive and enriching experience.

Please confirm your acceptance of this offer by 29-03-2024. Should you have any questions or require further information, please do not hesitate to contact +91 8300251244.

Once again, congratulations on your selection, and we look forward to welcoming you to Clovion Tech Solutions Pvt. Ltd.

Yours sincerely

Clovion Tech Solutions Pvt. Ltd.

1st Floor, AJR Complex, Azhagiyamandapam, Kanyakumari Dist, Tamilnadu, India - 629167



clovion.org

info@clovion.org



Date: 25-03-2024

Andrea...c

12/160-3, NEAR MANCHIL SAWMIL, COLDCHAL ROAD, ASPRIPALLAM, K.K. DISTRICT - 629201 Subject: Offer of Internship with Clovion Tech Solutions Pvt. Ltd.

Dear Candidate.

We are pleased to extend this offer of internship to you following your successful participation in the Skill Hunt - 2024 recruitment event conducted on March 25, 2024.

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Internship Details:

Duration: 15 days

Department: MEB...DEVELOPMENT

Location: Trivandrum/Azhagiyamandapam

During your internship, you will have the opportunity to work closely with our team of professionals, gaining valuable insights into the industry and enhancing your skills. As a valued member of our team, you will be provided with necessary resources, mentorship, and support to ensure a productive and enriching experience.

Please confirm your acceptance of this offer by 29-03-2024. Should you have any questions or require further information, please do not hesitate to contact +91 8300251244.

Once again, congratulations on your selection, and we look forward to welcoming you to Clovion Tech Solutions Pvt. Ltd.

Yours singerely,

Clovior Tech Solutions Pvt. Ltd.

1st Floor, AJR Complex, Azhagiyamandapam, Kanyakumari Dist, Tamilnadu, India - 629167



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M info@clovion.org





Date: 25-03-2024

Bubitha ... Sk....

Dlo. R. Selva. Raj., 9-156, cheramangalam (pottal),

Manavalakurichi (Po)

Subject: Offer of Internship with Clovion Tech Solutions Pvt. Ltd.

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info@clovion.org ( +91 4651 294 550



Date: 25-03-2024

Adil Abamed I 2/250/3, Parnatti Vilai, Colachel

Subject: Offer of Internship with Clovion Tech Solutions Pvt. Ltd.

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Girector 25 3/2

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Date: 25-03-2024

3/49. Thekkanthinivilai.

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Director

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info@clovion.org



Date: 25-03-2024

.....kasuppasamy...k.

3) 15 I pillajuny kovil Street, subramanijapuran, maraneri (Po), Sivakasi, vinedhuragar, 626-124. Subject: Offer of Internship with Clovion Tech Solutions Pvt. Ltd.

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Date: 25-03-2024

9/58B, Tharavillai, Pazhavillai Post - 629501 Thanya S.

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Date: 25-03-2024

.....Kingshiya.1.k.s.....

2-80.C., PARAMBOTUNILLAI, THIRUVARAMBU POST, K.K. DIST.

Subject: Offer of Internship with Clovion Tech Solutions Pvt. Ltd.

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Date: 25-03-2024

To.

Nathim khan

H. No: 29/76-D Kamaraj Street, Colachel.

Subject: Offer of Internship with Clovion Tech Solutions Pvt. Ltd.

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M info@clovion.org



This is to certify that

Mr./Ms. R. Asmika

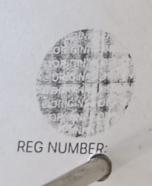
who is undergoing BE in CSE from STELLA MARY'S COLLEGE OF ENGINEERING,

has attended One Week Internship In Python at "Srishti Innovative Computer Systems", Technopark, Trivandrum

from 04/03/2024 to 09/03/2024

Date: 09/03/2024

Place: Trivandrum



Monisha H Chandran
Centre Manager



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SRISHTI INNOVATIVE EDUCATIONAL SERVICE

Kazhakkoottam, Thiruvananthapuram www.srishticampus.com

This is to certify that

Mr./Ms. Akasni Brutshiba

who is undergoing BE in CSE from STELLA MARY'S COLLEGE OF ENGINEERING,

has attended One Week Internship In Python at

"Srishti Innovative Computer Systems", Technopark, Trivandrum

from 04/03/2024 to 08/03/2024

Date: 08/03/2024

Place: Trivandrum



Monisha H Chandran
Centre Manager





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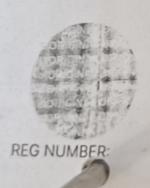
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- Chr

SRISHTI INNOVATIVE EDUCATIO

Kazhakkoottam, Thiruv www.srishticam



### **BONAFIDE CERTIFICATE**

This is to certify that Mr. Mohamed Shahid S. worked as an Intern from February 2024 - March 2024 as Frontend Designer at REXKNAR CREATIVE SOLUTIONS.

During the period of his internship with us, he was exposed to different processes and was found punctual, hardworking, and inquisitive.

We wish him success in all future endeavors.





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Yours Street Ply Control of the Authorized Signatory
Chief Executive Officer



### **BONAFIDE CERTIFICATE**

This is to certify that Mr. Ajai Kuma R. worked as an Intern from February 2024 - March 2024 as Frontend Designer at REXKNAR CREATIVE SOLUTIONS.

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Chief Executive Officer



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Yours Sincerely,
Sobin JM
Authorized Signatory

Chief Executive Officer



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