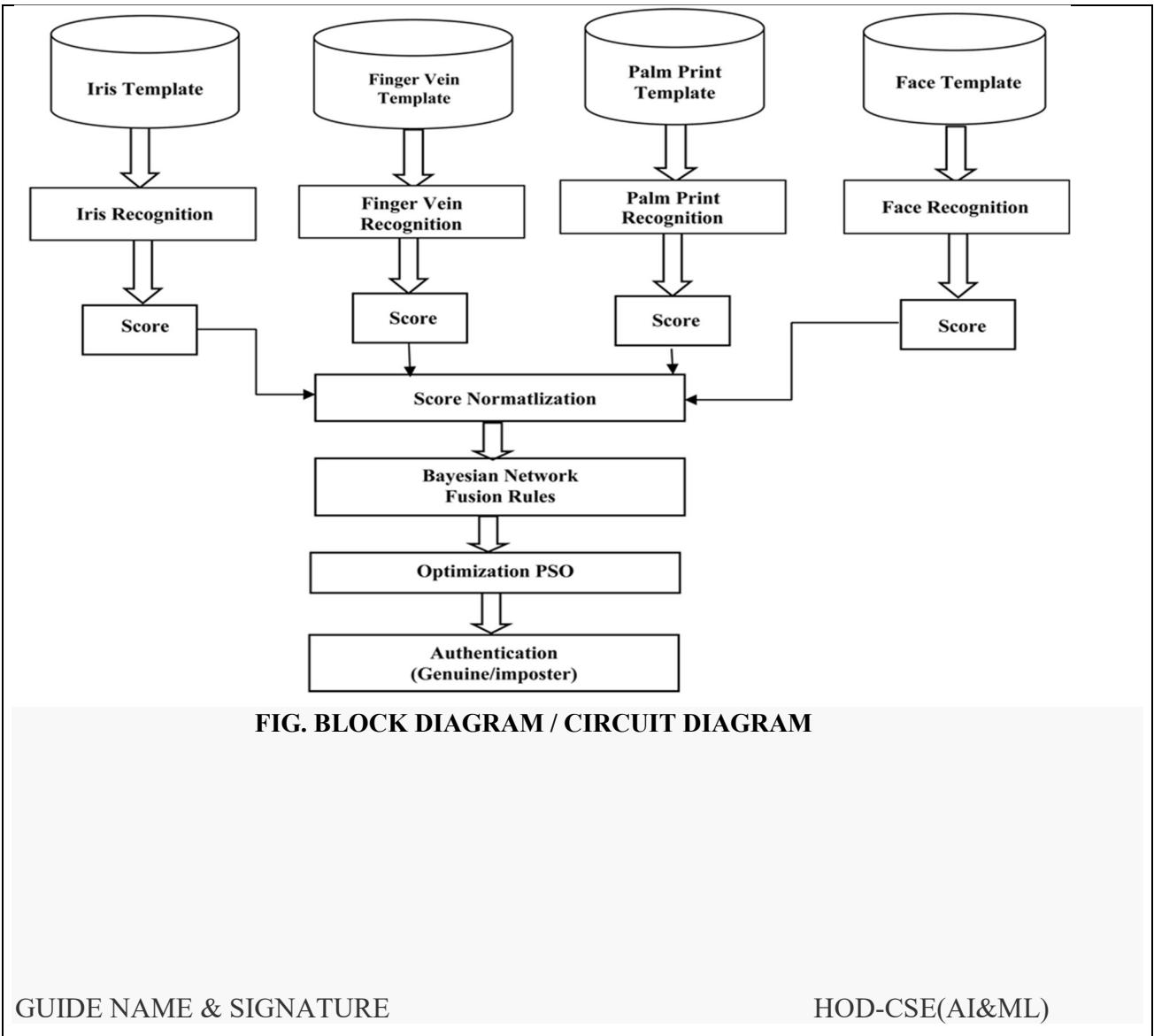


RTRP PROJECT ABSTRACT(B1)

TITLE OF RTRP PROJECT: Detection Of Fake And Clone Accounts In Social Media			
ROLL NUMBER	STUDENT NAME	PH.NO	EMAIL ID
22891A66J2	K. Sreeram	8978971375	sreeramk@gmail.com
22891A66I8	V. Chandu	8121165166	chandini@gmail.com
22891A66G7	M. Anirudh	8074309694	anirudhm@gmail.com
GUIDE NAME: Dr. J.R.V. Jeny			
ABSTRACT			
Online Social Network (OSN) is a network hub where people with similar interests or real world relationships interact. As the popularity of OSN is increasing, the security and privacy issues related to it are also rising. Fake and Clone profiles are creating dangerous security problems to social network users. Cloning of user profiles is one serious threat, where already existing user's details are stolen to create duplicate profiles and then it is misused for damaging the identity of original profile owner. This module detects clones based on Attribute and Network similarity. User profile is taken as input. User identifying information are extracted from the profile. Profiles which are having attributes matching to that of user's profile are searched. Similarity index is calculated and if the similarity index is greater than the threshold, then the profile Attribute similarity is calculated based on the similarity of attribute values between the profiles. The attributes that are considered for similarity measurement are Name, Screen Name, Language, Location and Time zone. By detecting fake and clone accounts in twitter we can decrease the security and privacy issues related to it are also rising. Fake and Clone profiles are creating dangerous security problems to social network users. So that we can decrease the security threats that are happened by fake and clone accounts. Online Social Networks (OSN) like Face book, Twitter, LinkedIn, Instagram are used by billions of users all around the world to build network connections.			



GUIDE NAME & SIGNATURE

HOD-CSE(AI&ML)

RTRP PROJECT ABSTRACT(B2)

TITLE OF RTRP PROJECT: Educational Performance Dashboard

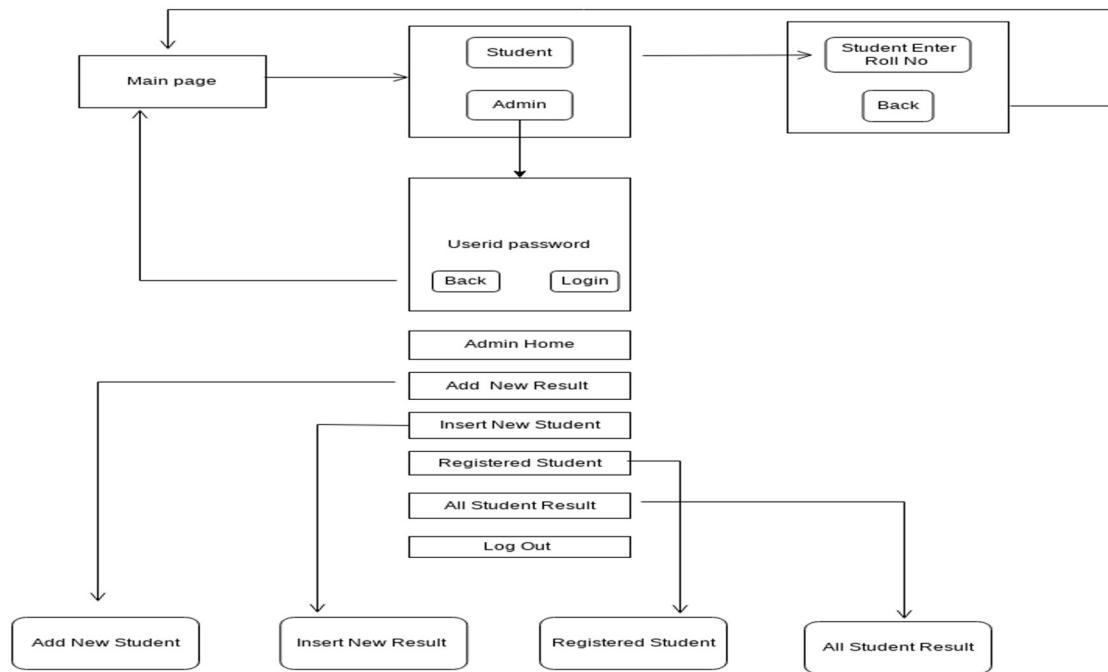
ROLL NUMBER	STUDENT NAME	PH.NO	EMAIL ID
22891A66C9	ADDANKI TARUN KUMAR	7989221169	tarun.addanki04@gmail.com
22891A66H4	PESARAKAYALA DEEPAK REDDY	9182339021	kayaladeepakreddy@gmail.com
22891A66F5	LINGAMPALLI RAMU	7032664692	Srinumaheshwari52@gmail.com

GUIDE NAME: Dr. K. Rama Krishna Reddy

ABSTRACT:

Academic Analysis System Using PHP and MySQL plays a pivotal role in educational institutions by automating the process of managing student academic records and results. In today's digital age, the efficient management of student data is essential for ensuring accuracy, transparency, and accessibility. The Academic Analysis System is designed to streamline the management of student results, providing educators, students, and administrators with a reliable and user-friendly platform to monitor academic progress, analyse performance, and facilitate decision-making. Traditionally, the management of student results relied heavily on manual record-keeping systems, which were prone to errors, inconsistencies, and inefficiency. The Academic Analysis System represents a significant advancement by leveraging technology to automate various tasks, including result entry, calculation, storage, and retrieval. By digitizing and centralizing student academic records, the Academic Analysis System reduces the need for cumbersome paperwork, reduces administrative overhead, and enhances data integrity. Additionally, the system offers features such as real-time result updates, personalized dashboards, and analytics tools, empowering educators and students to make informed decisions and take proactive measures to improve academic performance. It is built on a robust and scalable web-based platform, utilizing technologies such as HTML, CSS, JavaScript, and PHP for frontend and backend development. The system integrates relational databases for storing student information and academic records securely. The implementation of the Academic Analysis System yields numerous benefits for educational institutions, educators, students, and administrators alike. Educators benefit from streamlined workflows, allowing them to enter, update, and analyse student results efficiently. Students gain access to their academic records anytime, anywhere, enabling them to track their progress, identify areas for improvement, and set academic goals. Administrators enjoy enhanced data accuracy, comprehensive reporting capabilities, and improved decision-making, facilitating strategic planning and resource allocation.

BLOCK DIAGRAM / CIRCUIT DIAGRAM:



GUIDE NAME & SIGNATURE

Dr. K. Rama Krishna Reddy

HOD-CSE(AI&ML)

Dr.J.R.V.Jeny

RTRP PROJECT ABSTRACT(B3)

TITLE OF INNOVATIVE PROJECT: Vehicle Speed Estimation

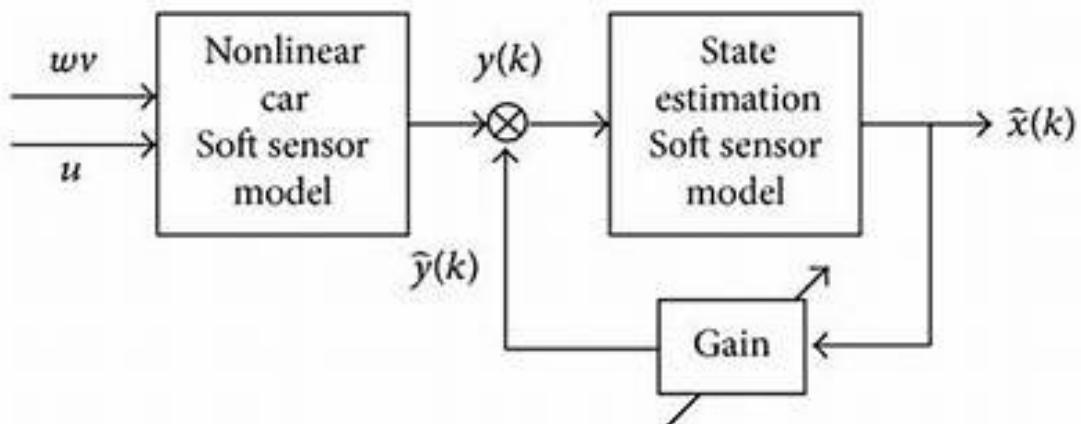
ROLL NUMBER	STUDENT NAME	PH.NO	EMAIL ID
22891A66G8	Pallekadi Navya	900434367	navyagoud195@gmail.com
22891A66H8	P V Lokeshwari	9346279984	lokeshwaripothakamuri@gmail.com
22891A66J3	D Manikanta	7013419381	manidabbati7@gmail.com

GUIDE NAME: Mr. R. Praveen Kumar

ABSTRACT:

In this project, using OpenCV and Deep Learning, we detect vehicles in video streams, track them, and apply speed estimation to detect the MPH/KPH of the moving vehicle. This is inspired by PyImage Search readers who have emailed me asking for speed estimation computer vision solutions. As pedestrians taking the dog for a walk, escorting our kids to school, or marching to our workplace in the morning, we've all experienced unsafe, fast-moving vehicles operated by inattentive drivers that nearly mow us down. Many of us live in apartment complexes or housing neighbor hoods where ignorant drivers disregard safety and zoom by, going way too fast.

BLOCK DIAGRAM / CIRCUIT DIAGRAM:



GUIDE NAME & SIGNATURE

Mr. R. Praveen Kumar

HOD-CSE(AI&ML)

Dr. J.R.V. Jeny

RTRP PROJECT ABSTRACT(B4)

TITLE OF RTRP PROJECT: FashionMate: Your Virtual Stylist for Effortless Fashion Decisions

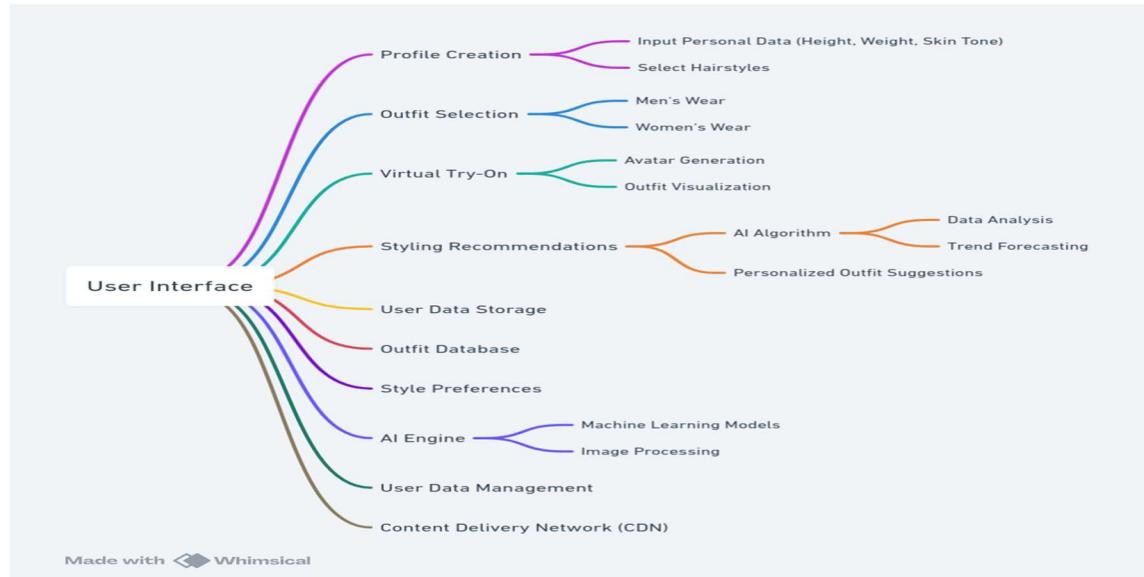
ROLL NUMBER	STUDENT NAME	PH.NO	EMAIL ID
22891A66I3	S.MAHALAKSHMI	6309143560	mahalakshmisiliveru9@gmail.com
22891A66H2	P.ESHWAR	9014075180	eshwarpasunuri@gmail.com
22891A66I2	S.SIDDARDHA	8688357687	siddardhashayini3@gmail.com

GUIDE NAME: Mr. M. Mahesh

ABSTRACT

The intersection of technology and fashion has opened up new avenues for personalized shopping experiences. "FashionMate" emerges as a cutting-edge platform that integrates artificial intelligence with fashion retail, offering users a virtual stylist to assist in their sartorial choices. The purpose of FashionMate is to bridge the gap between online shopping and personal fit. Traditional online shopping platforms lack the ability to provide personalized outfit recommendations based on user-specific attributes. FashionMate addresses this by allowing users to create a digital avatar that matches their height, weight, and skin tone, providing a more accurate representation of how clothes will look. The development of FashionMate involved extensive research into AI algorithms capable of rendering realistic avatars and understanding fashion trends. Machine learning tools were employed to analyze user data and preferences, ensuring that the system adapts to individual styles over time.

BLOCK DIAGRAM / CIRCUIT DIAGRAM:



GUIDE NAME & SIGNATURE

Mr. M. Mahesh

HOD-CSE(AI&ML)

Dr. J.R.V. Jeny

RTRP PROJECT ABSTRACT(B5)

TITLE OF RTRP PROJECT: The Food Donation and Waste Management

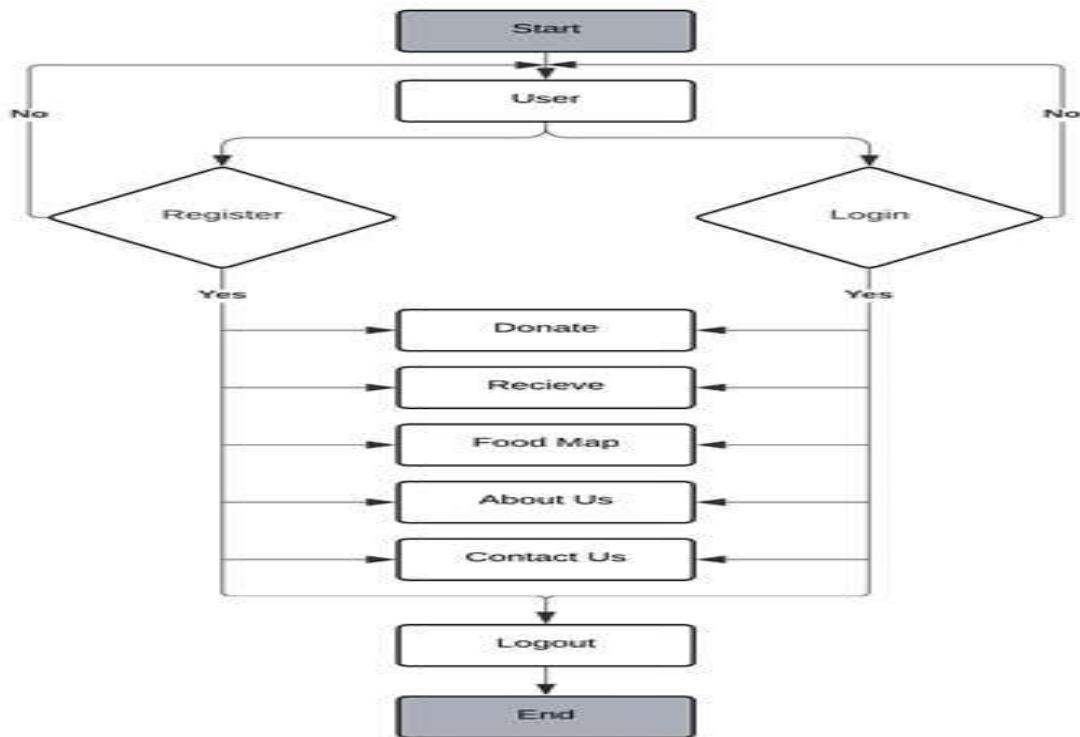
ROLL NUMBER	STUDENT NAME	PH.NO	EMAIL ID
22891A66D7	Ch.Ramya	6302877572	chegondaramya5@gmail.com
22891A66H7	P.Mahesh	9390481825	maheshporla93@gmail.com
22891A66G9	P.Shanthan Sai	7032110550	shanthan1424@gmail.com

GUIDE NAME: Mr. K. Manirathnam Babu

ABSTRACT

The Waste Food Management & Donation App is a web-based application designed to tackle the pressing issue of food waste by facilitating the donation of surplus food to those in need. This project leverages simple web technologies—HTML, CSS, and JavaScript—to create an intuitive platform where users can easily donate excess food and view available donations. Key functionalities include a form for submitting food donations, which collects details such as food name, quantity, and location. Submitted donations are dynamically displayed in a list format, making it easy for potential recipients to see what's available. The app aims to reduce food waste by connecting donors with local charities, food banks, and individuals in need. The app is designed with scalability in mind, offering opportunities for future enhancements such as local storage to preserve data across sessions, backend integration for persistent storage and user management, geolocation features to display donation locations on a map, and advanced search and filtering options to improve user experience. By simplifying the donation process and raising awareness about food waste, the Waste Food Management & Donation App contributes to a more sustainable and socially responsible community.

BLOCK DIAGRAM / CIRCUIT DIAGRAM:



GUIDE NAME & SIGNATURE

Mr. K. Manirathnam Babu

HOD-CSE(AI&ML)

Dr. J.R.V. Jeny

RTRP PROJECT ABSTRACT(B6)

TITLE OF RTRP PROJECT: Enhancing Text Quality: Leveraging Machine Learning and NLP for Advanced Autocorrection Systems

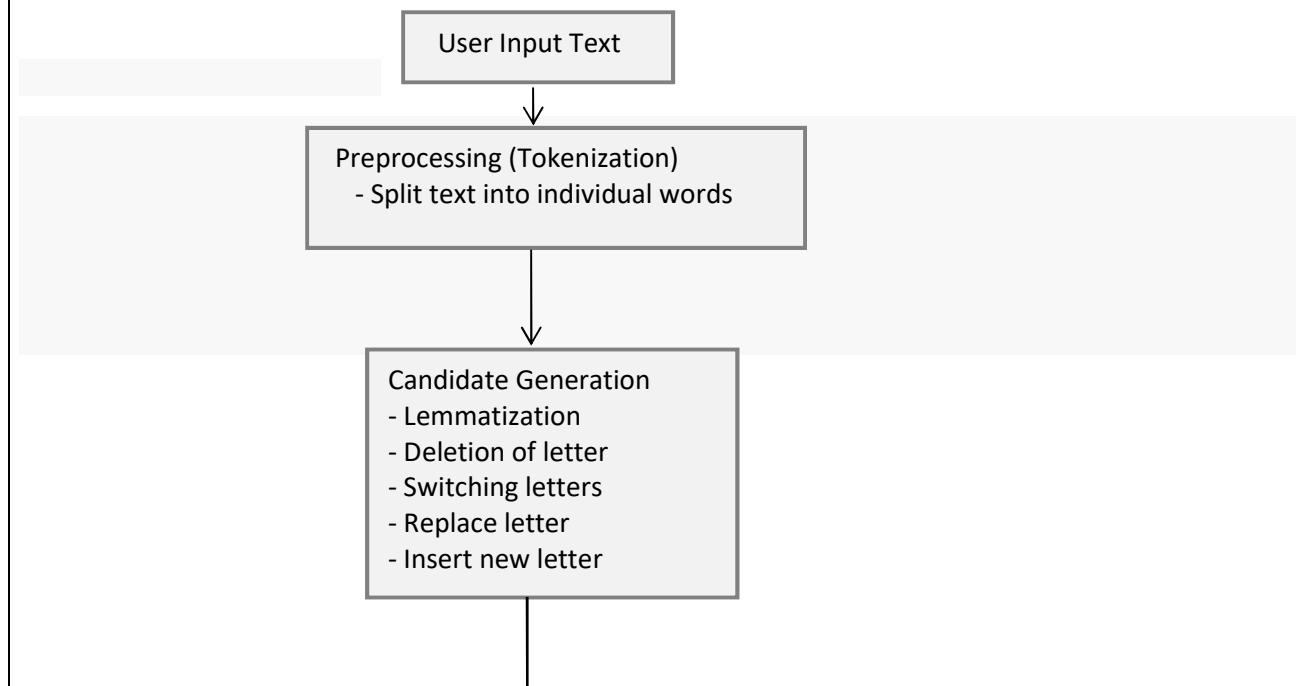
ROLL NUMBER	STUDENT NAME	PH.NO	EMAIL ID
22891A66E6	I.Deekshith	8309708620	r8776839@gmail.com
22891A66F0	Konam.Pranavi	8919679724	konampranavi@gmail.com
22891A66H9	Putheti.Sandeep	6302246158	Puthetisandeep30@gmail.com

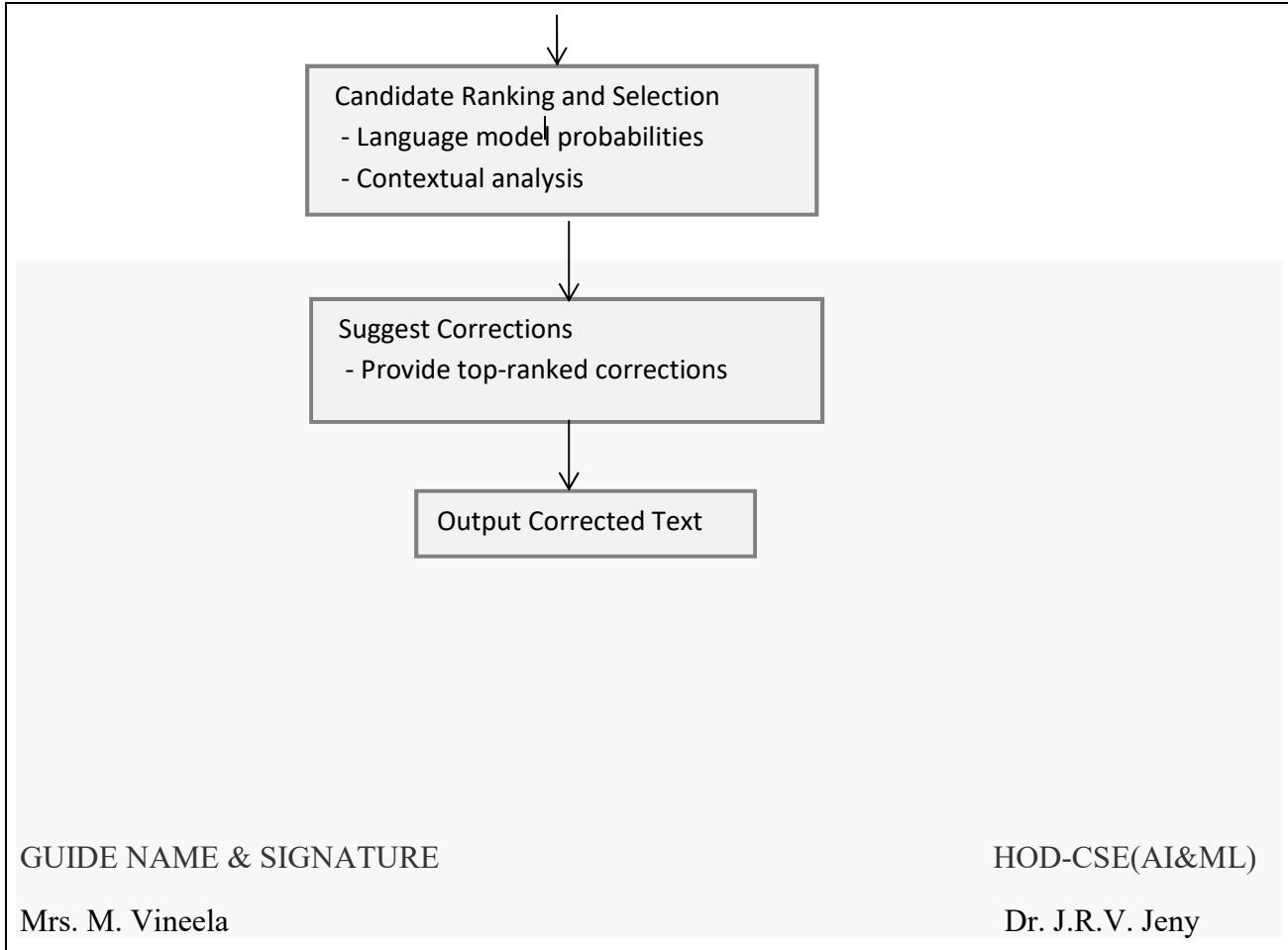
GUIDE NAME: Mrs. M. Vineela

ABSTRACT

Autocorrect is a way of predicting or making the wrong spellings correct, which makes the tasks like writing paragraphs, reports, and articles easier. Today there are a lot of Websites and Social media platforms that use this concept to make web apps user-friendly. So, here we are using MachineLearning and NLP to make an autocorrection generator that will suggest to us the correct spellings for the input word. We will be using Python Programming Language for this. The further code is divided into 5 main parts, that includes the creation of all types of different words that are possible. To do this, we can use: Lemmatization, Deletion of letter, Switching Letter, Replace Letter, insert new Letter. Autocorrect is a mechanism that predicts or corrects misspelled words, making tasks like writing paragraphs, reports, and articles easier. Many websites and social media platforms employ autocorrect to enhance user-friendliness. So, we have implemented the basic auto-corrector using the NLTK Library and Python. For further steps, we can work on the High-level auto-corrector system which uses the large amount of dataset and works more efficiently.

BLOCK DIAGRAM / CIRCUIT DIAGRAM:





RTRP PROJECT ABSTRACT(B7)

TITLE OF RTRP PROJECT: Irresponsible Driver Detection			
ROLL NUMBER	STUDENT NAME	PH.NO	EMAIL ID
22891A66G2	MD R RESHMA	7032976602	mdrokhayyareshma@gmail.com
22891A66G3	ABDUR RAHMAN	8712285235	abdur_rahman.md@gmail.com
22891A66F4	SAI PRADYUMNA	8125611423	saipadhyumna.k8@gmail.com
GUIDE NAME: Ms. B. Mounica			
ABSTRACT:			
The growing number of road accidents necessitates the development of advanced technologies for detecting irresponsible driving behavior. This project, "Irresponsible Driver Detection using OpenCV," aims to create an intelligent system that identifies and alerts authorities about unsafe driving practices. Utilizing OpenCV, an open-source computer vision library, this system captures and analyzes video footage to detect various indicators of irresponsible driving such as speeding, abrupt lane changes, and failure to obey traffic signals. Key components of the system include video capture modules, image preprocessing techniques, and robust algorithms for motion detection and behavior analysis. The system leverages machine learning models trained on extensive datasets to accurately classify driving behavior. The real-time processing capability ensures timely detection and reporting of dangerous driving incidents. Through extensive testing in different traffic conditions and environments, the system demonstrates high accuracy in detecting irresponsible driving. The results show the potential of using computer vision technologies to enhance road safety and assist in traffic law enforcement. This approach not only provides a proactive measure for accident prevention but also contributes to the broader field of intelligent transportation systems.			
BLOCK DIAGRAM / CIRCUIT DIAGRAM:			
<pre>graph TD; A[Camera Module] --> B[Video Acquisition]; B --> C["Detecting Facial and Eye Blink Movements"]; C --> D[Alerting System]</pre>			
GUIDE NAME & SIGNATURE		HOD-CSE(AI&ML)	
Ms. B. Mounica		Dr. J.R.V.Jeny	

RTRP PROJECT ABSTRACT(B8)

TITLE OF RTRP PROJECT: Exam Hall Monitoring using OpenCV

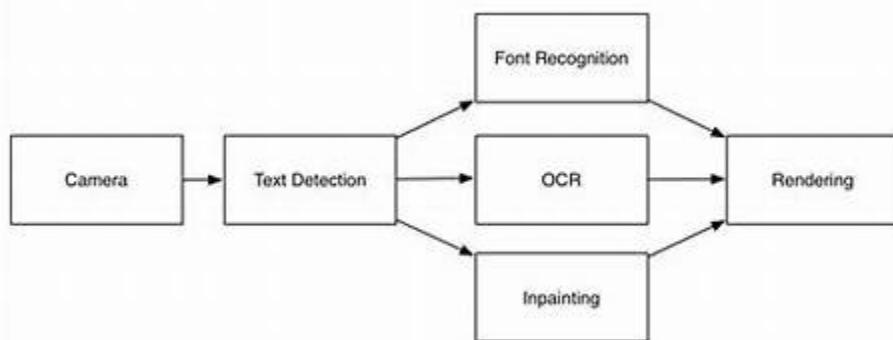
ROLL NUMBER	STUDENT NAME	PH.NO	EMAIL ID
22891A66F8	M. Anjali	9121180916	anjalireddy9121@gmail.com
22891A66H1	B. Ravi Ram Sagar	9177697173	ravirambuduru@gmail.com
22891A66I4	S . Manikanta	86883 37923	S.manikantamani1431@gmail.com

GUIDE NAME: Mr. P.M. Naidu

ABSTRACT :

The paper proposes a workflow for the automatic detection of anomalous behavior in an examination hall, toward the automated proctoring of tests in classes. Certain assumptions about normal behavior in the context of proctoring exams are made. Anomalies are behavior patterns that are relatively (and significantly) different. While not every anomalous behavior may be cause for suspicion, the system is designed to detect typical patterns for actions of concern such as discussions during an exam or the turning around or the passing of notes, etc. This detection is based on features computed using the textural features followed by a classifier search through annotated patterns of pre-recorded clips to train the system for behavior that may cause concern.

BLOCK DIAGRAM / CIRCUIT DIAGRAM:



GUIDE NAME & SIGNATURE

Mr. P.M. Naidu

HOD-CSE(AI&ML)

Dr. J.R.V. Jeny

RTRP PROJECT ABSTRACT(B9)

TITLE OF RTRP PROJECT: AUTOMATED PICKPOCKETING DETECTION SYSTEM

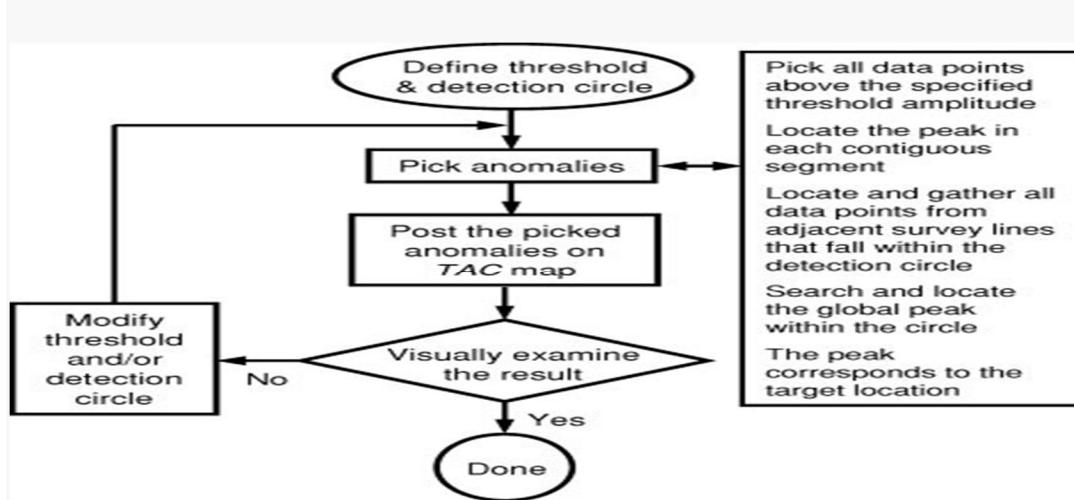
ROLL NUMBER	STUDENT NAME	PH.NO	EMAIL ID
22891A66G0	M.Poojitha	8328409846	marupakapoojitha@gmail.com
22891A66E8	J.Vignesh kumar	9390644324	vigneshkumar.j23@gmail.com
22891A66E3	G.Shiva Teja	99595 76152	Shivateja.g62@gmail.com

GUIDE NAME: Mr. B. Siva Kanaka Raju

ABSTRACT

Pickpocketing is a form of theft where valuables are stolen from a person without their notice, often relying on misdirection. Thieves, known as pickpockets, typically operate in crowded areas like bus stops, train stations, shopping malls, and tea stalls. This issue is widespread globally, and currently, no automated detection solution exists. We propose to develop a computer vision-based system to detect pickpocketing through video surveillance. This system will automatically identify suspicious activities and alert potential victims through audio or video signals. Additionally, the recorded footage can be used as evidence to apprehend the thief. This solution aims to enhance security and reduce pickpocketing incidents in public places.

BLOCK DIAGRAM / CIRCUIT DIAGRAM:



GUIDE NAME & SIGNATURE

Mr. B. Siva Kanaka Raju

HOD-CSE(AI&ML)

Dr. J.R.V. Jeny

RTRP PROJECT ABSTRACT(B10)

TITLE OF RTRP PROJECT: COLLEGE PLACEMENT SYSTEM

ROLL NUMBER	STUDENT NAME	PH.NO	EMAIL ID
22891A66F6	M.INDHU	9676985276	Mamidiindhu46@gmail.com
22891A66G4	M.ASHVITHA	6300597238	ashvithamudedla26@gmail.com
22891A66I7	V.SHILPA	8555015831	shilpavaddepally01@gmail.com

GUIDE NAME: Dr. K. Rama Krishna Reddy

ABSTRACT

In the dynamic landscape of education and career advancement, the effective management of placement processes is crucial for educational institutions and students alike. A Placement Management System (PMS) serves as the backbone for streamlining the complex workflows involved in connecting students with prospective employers. Built using the versatile programming language Python, a Placement Management System offers a comprehensive platform for managing various facets of the placement process efficiently. Based on various eligibility criteria of different companies. Placement officer record the data of students. If any alterations or updates are necessary in the profile of any student, it has to be done manually. This is tedious and time-consuming, lacks the security of data, took more manpower, consumes a large volume of paper and space. A python based placement management system typically encompasses a range of features designed to simplify and optimize placement related activities. The primary goal of a college placement system project is often to enhance the process of matching graduating students with employment or further educational opportunities that align with their skills, interests, and career aspirations. The outcome would ideally be an improved system for guiding students towards suitable career paths or graduate programs.

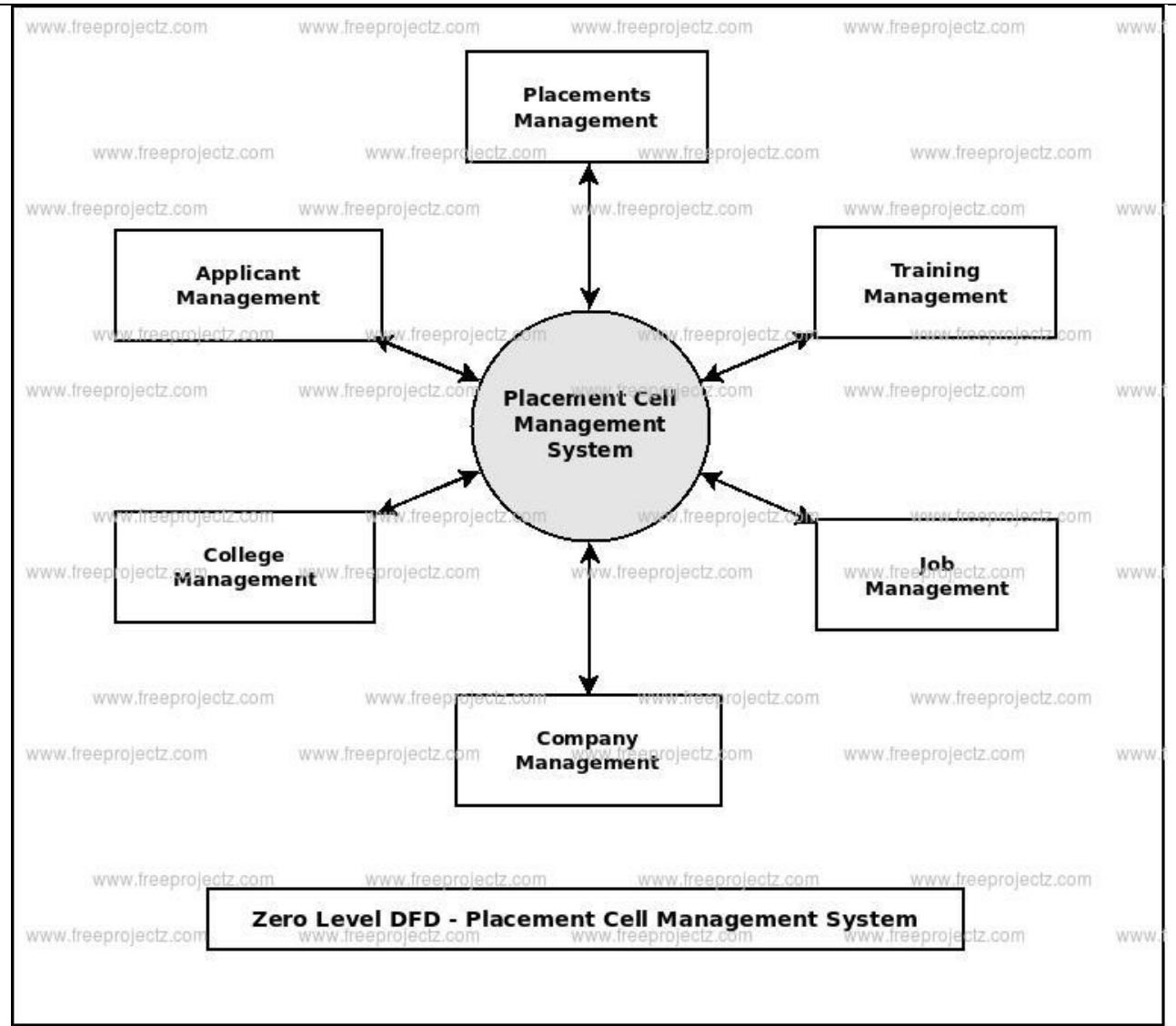


FIG. BLOCK DIAGRAM / CIRCUIT DIAGRAM

GUIDE NAME & SIGNATURE

Dr. K. Rama Krishna Reddy

HOD-CSE(AI&ML)

Dr. J.R.V. Jeny

RTRP PROJECT ABSTRACT(B11)

TITLE OF RTRP PROJECT: Advanced Desktop Voice Assistant with NLP and OpenAI

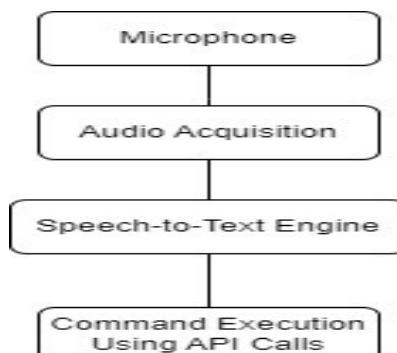
ROLL NUMBER	STUDENT NAME	PH.NO	EMAIL ID
22891A66I0	Sai Varun	+918367384182	Samaletsivarun2004@gmail.com
22891A66H5	Keshav Rao	+919391596522	keshavraopilli@gmail.com
22891A66J1	Srujan	+917794954437	Survisrujan@gmail.com

GUIDE NAME: Mr. R. Praveen Kumar

ABSTRACT:

The project focuses on the development of an advanced desktop voice assistant, leveraging cutting-edge technologies in natural language processing (NLP) and integration with OpenAI's artificial intelligence models. This voice assistant aims to provide users with a seamless and intuitive interface for interacting with their computer system through voice commands. By harnessing a comprehensive stack of packages and APIs, including speech recognition, pytsx3 for text-to-speech conversion, pyaudio for audio input/output, and OpenAI's API, the assistant offers a wide range of functionalities. These functionalities encompass opening applications, accessing files, sending emails, and utilizing generative AI tools for tasks such as creative writing or content generation. The project seeks to enhance user productivity and experience by enabling hands-free interaction with the desktop environment.

BLOCK DIAGRAM / CIRCUIT DIAGRAM:



GUIDE NAME & SIGNATURE

Mr. R. Praveen Kumar

HOD-CSE(AI&ML)

Dr. J.R.V.Jeny

RTRP PROJECT ABSTRACT(B12)

TITLE OF RTRP PROJECT: VOICE BASED EMAIL FOR VISUALLY CHALLENGED			
ROLL NUMBER	STUDENT NAME	PH.NO	EMAIL ID
22891A66E9	K RAJESH	9639981702	rajeshk44@gmail.com
22891A66D6	K SHASHANK	6304173079	shashank.11@gmail.com
22895A66H0	P AKSHITHA	6200870700	akshitha_pannala@gmail.com
GUIDE NAME: Mr. M. Mahesh			
ABSTRACT: The "Voice Based Email for Visually Challenged" project aims to bridge the digital divide by providing a user-friendly, voice-controlled email system for individuals with visual impairments. This innovative solution leverages advanced speech recognition and text-to-speech technologies to enable visually challenged users to access, compose, send, and manage emails without the need for visual interaction. The system ensures accessibility by integrating with popular email services and offering intuitive voice commands that cater to the specific needs of visually impaired users. Through rigorous testing and user feedback, the project focuses on delivering a seamless and efficient email experience, enhancing digital inclusivity and empowering visually challenged individuals to communicate effectively in a technology-driven world.			
BLOCK DIAGRAM / CIRCUIT DIAGRAM:			
<pre>graph TD; A[User Voice as Input] --> B[Microphone]; B --> C[Speech Recognition]; C --> D[Email Module]; C --> E[Text-to-Speech Module]; D --> F[Email Server]; E --> F;</pre>			
GUIDE NAME & SIGNATURE		HOD-CSE(AI&ML)	
Mr. M. Mahesh		Dr. J.R.V.Jeny	

RTRP PROJECT ABSTRACT(B13)

TITLE OF RTRP PROJECT: Visual Cryptography Doing with QR Code Analysis

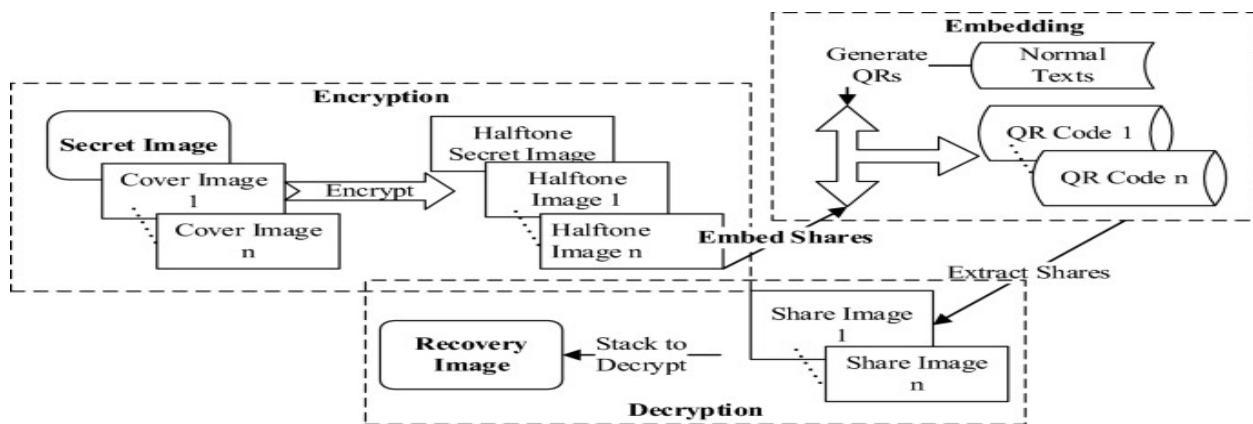
ROLL NUMBER	STUDENT NAME	PH.NO	EMAIL ID
22891A66D0	B.Pavan Kalyan	9014216428	pbanothpavankalyan80@gmail.com
22891A66H1	P.Rithwika Reddy	9063146273	pashamritwikareddy08@gmail.com
22891A66I1	Shaik Gousuddin.	9110583259	shaikgousuddin09@gmail.com

GUIDE NAME: Mr. K. Manirathnam Babu

ABSTRACT

Visual cryptography is like a puzzle game where you split a picture into pieces. Each piece doesn't make sense on its own but when you put them together, you see the whole picture. Now, imagine doing this with QR codes, those square barcodes you often scan with your phone. In this project, we're combining visual cryptography with QR codes to make a fun and secure way to hide pictures. First, we break the picture into parts and turn each part into a QR code. These QR codes are like secret messages. Then, we give these QR codes to different people or keep them in different places. When someone wants to see the hidden picture, they scan all the QR codes. Each QR code reveals only a part of the picture. But when they put all the parts together, the hidden picture magically appear.

BLOCK DIAGRAM / CIRCUIT DIAGRAM:



GUIDE NAME & SIGNATURE

Mr. K. Manirathnam Babu

HOD-CSE(AI&ML)

Dr. J.R.V. Jeny

RTRP PROJECT ABSTRACT(B14)

TITLE OF RTRP PROJECT: Human Scream Detection and Analysis			
ROLL NUMBER	STUDENT NAME	PH.NO	EMAIL ID
22891A66F1	K RAJESH	9639981702	kandimalla.raj02@gmail.com
22891A66I9	Y BHARGAVI	6304173079	bindubhargavi@gmail.com
22891A66E2	G DINESH	6200870700	goguladinesh.11@gmail.com
GUIDE NAME: Mrs. M. Vineela			
ABSTRACT:			
In this project, we use audio processing techniques to capture this hidden layer of information that can amplify and extract tonal and acoustic features from speech. Converting audio signals into numeric or vector format is not as straightforward as images. The transformation method will determine how much pivotal information is retained when we abandon the “audio” format. If a particular data transformation cannot capture the softness and calmness, it would be challenging for the models to learn the emotion and classify the sample. Some methods to transform audio data into numeric include Mel Spectrograms that visualize audio signals based on their frequency components which can be plotted as an audio wave and fed to train a CNN as an image classifier. We can capture this using Mel-frequency cepstral coefficients (MFCCs). Each of these data formats has its benefits and disadvantages based on the application.			
BLOCK DIAGRAM / CIRCUIT DIAGRAM:			
<pre>graph TD; Microphone[Microphone] --> AA[Audio Acquisition]; AA --> STT[Speech-to-Text Engine]; STT --> SD[Scream Detection]</pre>			
GUIDE NAME & SIGNATURE		HOD-CSE(AI&ML)	
Mrs. M. Vineela		Dr. J.R.V.Jeny	

RTRP PROJECT ABSTRACT(B15)

TITLE OF RTRP PROJECT: Information Hiding using Steganography

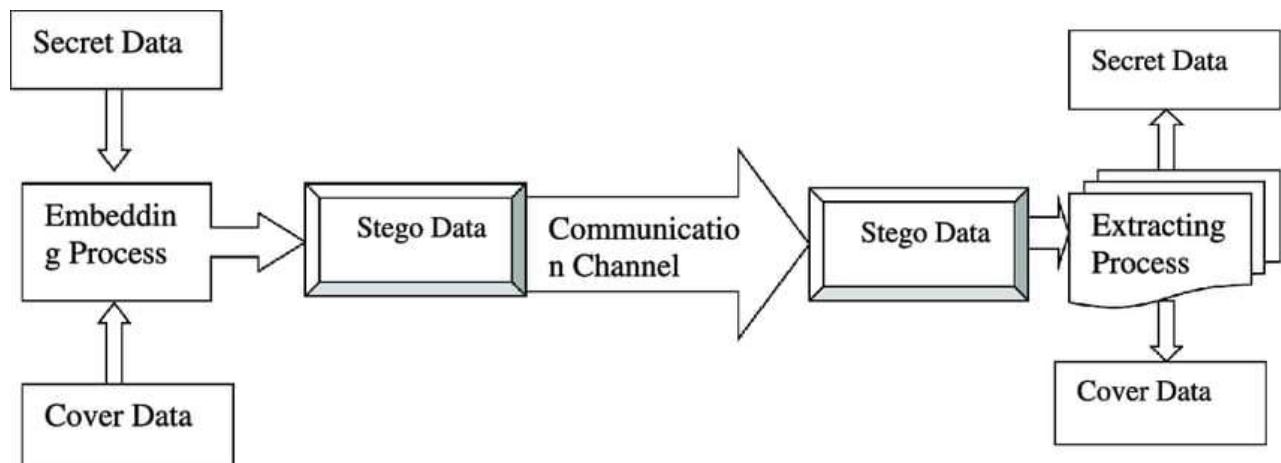
ROLL NUMBER	STUDENT NAME	PH.NO	EMAIL ID
22891A66D9	D.Sahithi	9390549651	sahithidommati9@gmail.com
22891A66G6	M.Sreeja	91103 52081	munagala.sreeja24@gmail.com
22891A66I5	S.Sandeep Kumar Reddy	9959450682	sandeepreddysurkanti682@gmail.com

GUIDE NAME: Ms. B. Mounica

ABSTRACT

Hiding of a secret message within an ordinary message and the extraction of it at its destination. Steganography is data hidden within data. Steganography is an encryption technique that can be used along with cryptography as an extra-secure method in which to protect data. Steganography techniques can be applied to images, a video file or an audio file. Steganography is the science of hiding information. Whereas the goal of cryptography is to make data unreadable by a third party, the goal of steganography is to hide the data from a third party. The process of hiding data and information is known to be steganography it is done to provide secure communication, in present world there is a demand of sending and displaying data in a hidden format especially when the exchange of information and data is taking place in public.

BLOCK DIAGRAM / CIRCUIT DIAGRAM:



GUIDE NAME & SIGNATURE

Ms. B. Mounica

HOD-CSE(AI&ML)

Dr. J.R.V. Jeny

RTRP PROJECT ABSTRACT(B16)

TITLE OF RTRP PROJECT: Pupil Progress Management

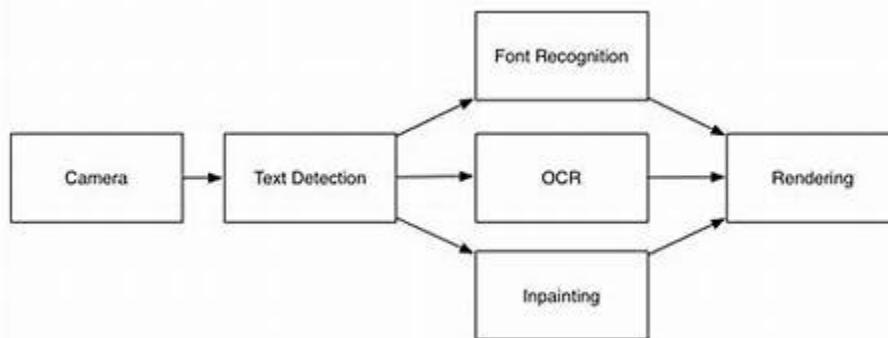
ROLL NUMBER	STUDENT NAME	PH.NO	EMAIL ID
22891A66D3	B. ADHITHYA	9121180916	adhithya121@gmail.com
22891A66F2	K JAHNAVI	9177697173	kjahnaviakshaya@gmail.com
22891A66E1	G SRINIDHI	86883 37923	sreenidhi.g45@gmail.com

GUIDE NAME: Mr. P.M. Naidu

ABSTRACT :

The paper proposes a workflow for the automatic detection of anomalous behavior in classrooms or study hall, toward the automated proctoring of students in classes. Certain assumptions about normal behavior in the context of proctoring exams are made. Anomalies are behavior patterns that are relatively (and significantly) different. While not every anomalous behavior may be cause for suspicion, the system is designed to detect typical patterns for actions of concern such as discussions during a lecture or the turning around or the passing of notes, etc. This detection is based on features computed using the textural features followed by a classifier search through annotated patterns of pre-recorded clips to train the system for behavior that may cause concern.

BLOCK DIAGRAM / CIRCUIT DIAGRAM:



GUIDE NAME & SIGNATURE

Mr. P.M. Naidu

HOD-CSE(AI&ML)

Dr. J.R.V. Jeny

RTRP PROJECT ABSTRACT(B17)

TITLE OF RTRP PROJECT: Automatic Questions Tagging System Using NLP			
ROLL NUMBER	STUDENT NAME	PH.NO	EMAIL ID
22891A66D1	B VEDANT	8978987415	vedant.b_31@gmail.com
22891A66F9	M NITHIN	6302817510	nithin_m23@gmail.com
22891A66D2	B BHAVESH	6303948996	bhaveshgoud05@gmail.com
GUIDE NAME: Mr. B. Siva Kanaka Raju			
ABSTRACT:			
In the era of digital learning and online forums, efficiently categorizing and tagging questions is essential for enhancing information retrieval and user experience. This project, "Automatic Questions Tagging System Using NLP," aims to develop an intelligent system that automates the process of tagging questions with relevant keywords using Natural Language Processing (NLP) techniques. By leveraging advanced NLP algorithms, the system can accurately analyze the content of a question and assign appropriate tags that reflect its main topics and themes. The core components of the system include text preprocessing, feature extraction, and a tagging engine. Feature extraction employs techniques such as tokenization, stemming, and vectorization to represent the text in a format suitable for processing. The tagging engine uses machine learning models trained on a large dataset of tagged questions to predict the most relevant tags for new questions.			
BLOCK DIAGRAM / CIRCUIT DIAGRAM:			
<pre>graph TD; A[User Query] --> B[Tokenization]; B --> C[NLP Process Model]; C --> D[Mapping Specific Tags]</pre>			
GUIDE NAME & SIGNATURE		HOD-CSE(AI&ML)	
Mr. B. Siva Kanaka Raju		Dr. J.R.V.Jeny	

RTRP PROJECT ABSTRACT(B18)

TITLE OF RTRP PROJECT: Optimizing Urban Waste Collection: Arduino-Powered Smart Dustbins

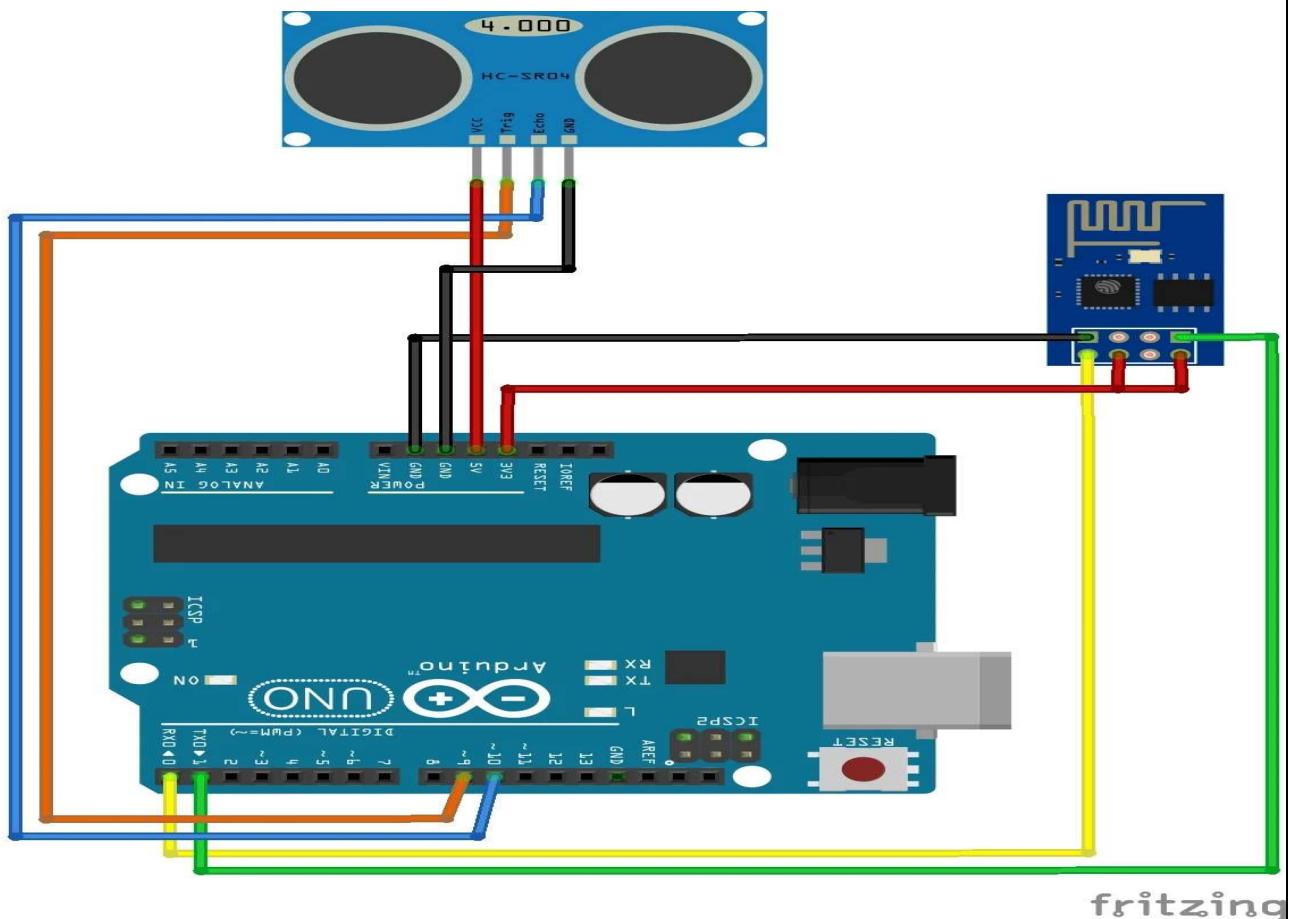
ROLL NUMBER	STUDENT NAME	PH.NO	EMAIL ID
22891A66D8	D.SRUTHI	9063313527	Shruthi456@gmail.com
22891A66E5	G.RAJATH	8309814055	rajathgupta97@gmail.com
22891A66H6	P.GANESH	8555041240	Ganeshpolagoni116@gmail.com

GUIDE NAME: Dr. K. Rama Krishna Reddy

ABSTRACT

Efficient waste collection is pivotal for sustainable urban development. This paper proposes a novel approach to optimize waste collection efficiency through the deployment of Arduino-based smart dustbins equipped with fill level sensors. The system employs Arduino micro controllers and ultrasonic sensors to monitor dustbin fill levels in real-time. Upon reaching capacity, a signal is transmitted to a companion mobile application, enabling waste collection personnel to prioritize collections effectively. The mobile application offers a user-friendly interface with a geographical layout displaying smart dustbin locations and their fill status. By utilizing colored indicators, waste collection routes can be efficiently planned, reducing unnecessary trips and resource wastage. Future enhancements include integration with waste management databases for predictive scheduling, implementation of smart routing algorithms for optimized collection routes, and expansion to include environmental monitoring sensors. Collaboration with municipal authorities for seamless integration into existing infrastructure is also envisaged. This innovative approach to waste management not only streamlines collection processes but also contributes to sustainable urban development. With promising prospects for further refinement and integration, this project represents a significant advancement in urban waste management technology. Future enhancements to the project could include: Integration with waste management databases: Incorporating data analytic and predictive algorithms to optimize collection schedules based on historical fill patterns. Smart routing algorithms: Implementing intelligent routing algorithms within the mobile application to suggest the most efficient collection routes for waste collection personnel. Environmental monitoring: Expanding the system to include sensors for monitoring environmental parameters such as air quality and temperature, providing additional insights for urban planning and environmental management. Integration with municipal systems: Collaborating with local government authorities to integrate the smart dustbin system into existing municipal waste management infrastructure for city-wide optimization. Overall, this project represents an innovative approach to optimizing waste collection processes using Arduino-based smart technology, with promising future prospects for further refinement and integration into urban infrastructure.

BLOCK DIAGRAM / CIRCUIT DIAGRAM:



GUIDE NAME & SIGNATURE

Dr. K. Rama Krishna Reddy

HOD-CSE(AI&ML)

Dr. J.R.V. Jeny

RTRP PROJECT ABSTRACT(B19)

TITLE OF RTRP PROJECT: REAL TIME OBJECT DETECTION AND TRACKING

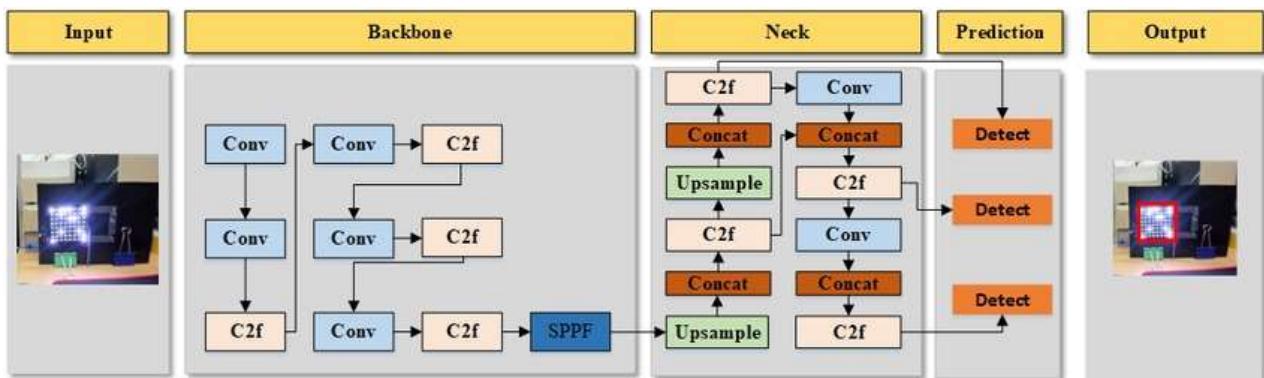
ROLL NUMBER	STUDENT NAME	PH.NO	EMAIL ID
22891A66E0	Edula Harshith	7842720504	edulaharshith1234@gmail.com
22891A66J0	Y.Laxmana sujeeth	9704153774	Sujeeth0604@gmail.com
22891A66H3	P.Sharanaya	8125596930	pendomsharanya2319@gmail.com

GUIDE NAME: Mr. R. Praveen Kumar

ABSTRACT

This paper presents an innovative approach to real-time object detection and tracking utilizing the YOLOv8 (You Only Look Once version 8) deep learning model. The primary goal is to enhance the precision and efficiency of detecting and tracking multiple objects simultaneously in dynamic environments. YOLOv8 builds upon its predecessors with improved architecture, faster processing capabilities, and higher accuracy in detecting smaller objects. Our methodology integrates YOLOv8 with advanced tracking algorithms to maintain robust performance even under challenging conditions such as occlusions, varying lighting, and rapid object movements. The system's real-time capabilities are validated through extensive experiments and benchmarks on diverse datasets, demonstrating significant improvements over previous YOLO iterations and other state-of-the-art object detection and tracking systems. The results indicate that our approach not only meets the stringent requirements of real-time applications but also offers scalability and adaptability for various practical implementations including surveillance, autonomous driving, and human-computer interaction.

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GUIDE NAME & SIGNATURE

Mr. R. Praveen Kumar

HOD-CSE(AI&ML)

Dr. J.R.V. Jeny

RTRP PROJECT ABSTRACT(B20)

TITLE OF RTRP PROJECT: LinguaPro: Elevating Language Proficiency

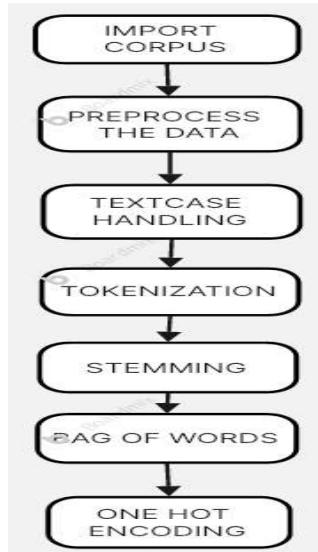
ROLL NUMBER	STUDENT NAME	PH.NO	EMAIL ID
22891A66E7	J S Prem Sinai	9392805987	jbhtjb5@gmail.com
22891A66F7	M Sai Manoj	9121495172	saimanojm19@gmail.com
23895A6614	A Arun Kumar	9866118332	alle.arun18@gmail.com

GUIDE NAME: Mr. M. Mahesh

ABSTRACT

In an increasingly interconnected world, effective communication skills are paramount for personal and professional success. However, many individuals, particularly introverts or those less confident in their English-speaking abilities, face hurdles in expressing themselves fluently. To bridge this gap, LinguaPro emerges as a transformative tool, offering tailored support for language acquisition and enhancement. Leveraging Python's versatility and robust ecosystem, LinguaPro offers a range of interactive features and personalized learning tools tailored to individual needs. With LinguaPro as their guide, introverts and individuals lacking confidence in English speaking can embark on a transformative journey towards linguistic proficiency. By combining the power of Python frameworks and TensorFlow, LinguaPro empowers users to communicate with confidence and precision, fostering success in both personal and professional endeavors.

BLOCK DIAGRAM / CIRCUIT DIAGRAM:



GUIDE NAME & SIGNATURE

Mr. M. Mahesh

HOD-CSE(AI&ML)

Dr. J.R.V. Jeny

RTRP PROJECT ABSTRACT(B21)

TITLE OF RTRP PROJECT: IMAGE PROCESSING BASED FIRE DETECTION USING OPEN CV

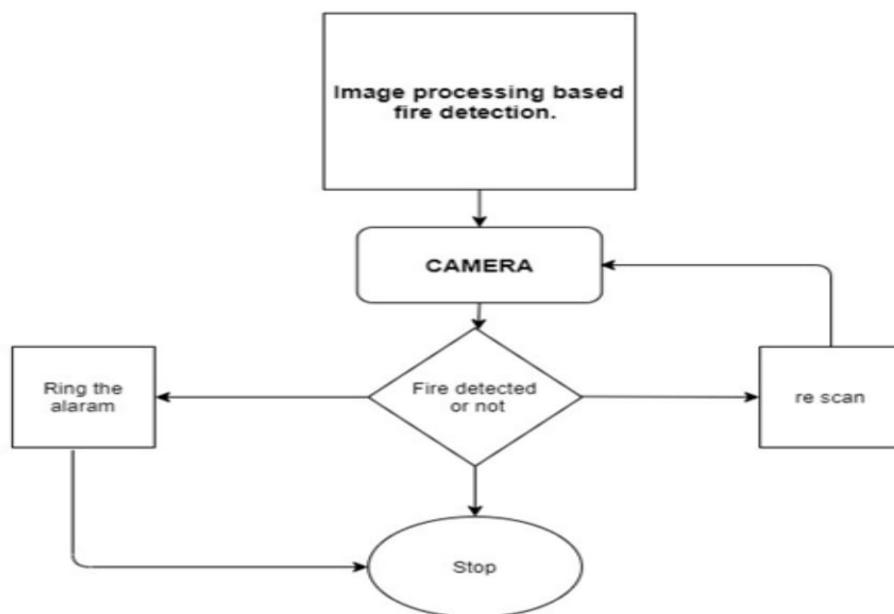
ROLL NUMBER	STUDENT NAME	PH.NO	EMAIL ID
22891A66G5	M.Likitha Reddy	7337422355	likithareddy072@gmail.com
22891A66D5	CH.Shravani	9652240907	Shravani.challagonda99@gmail.com

GUIDE NAME: Mr. K. Manirathnam Babu

ABSTRACT

The project aimed to detect fire by using the image processing technology that will alert people by early detection of fire. As there are many automatic fire alarm systems already existed like the sensor method, that has some limitations and designed to sense fire with the smoke, limited areas. To reduce limitations and to optimize with new technology, the project is proposed. The project is implemented by using pycharm IDE and to connect the webcam as hardware. Webcam is taken as an input source, which captures the video feed from the surrounding and feeds into the system for analysis. The entire code is written in pure python language using the open CV library for image processing. The theoretical parts emphasize more in computer vision, machine learning, image processing, color model, and the working algorithm of the project to detect the fire. The project gives a better understanding of object detection with the computer and the use of these technologies in different forms and uses.

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GUIDE NAME & SIGNATURE

Mr. K. Manirathnam Babu

HOD-CSE(AI&ML)

Dr. J.R.V. Jeny

RTRP PROJECT ABSTRACT(B22)

PROJECT TITLE: Contour Line Detection Techniques by OpenCV

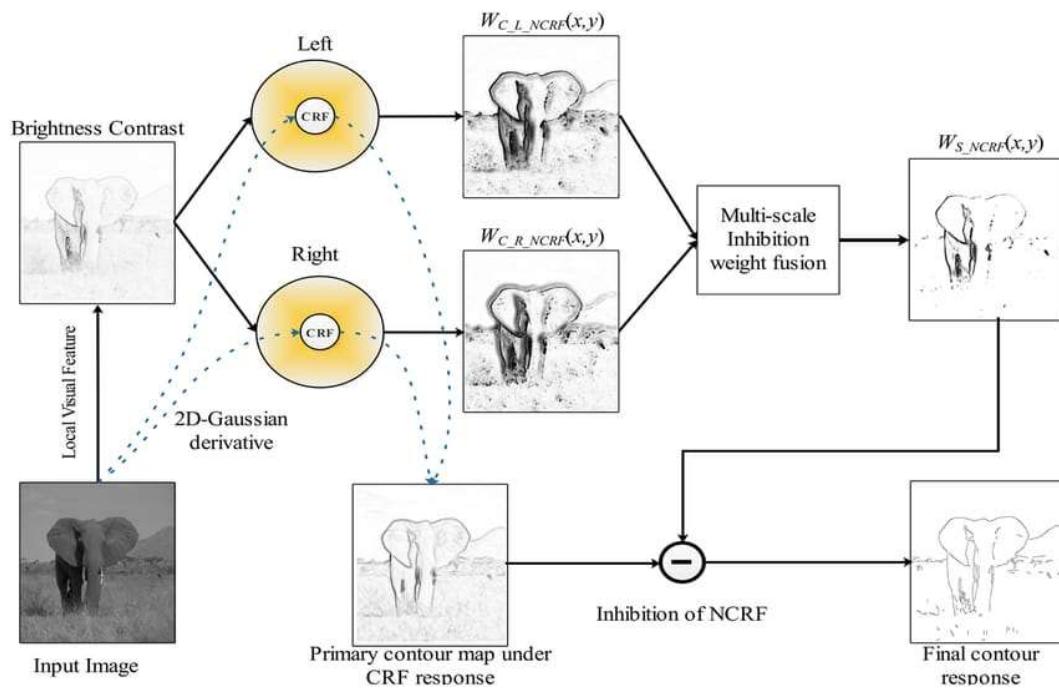
ROLL NUMBER	STUDENT NAME	PH.NO	EMAIL ID
22891A66I6	T. Lahari	9505398868	Laharithatkonda65@gmail.com
22891A66E4	G. Shivaganesh	9177719826	Shivaganesh7727@gmail.com
23895A6616	B. Saicharan	81064 29354	bsaicharang@gmail.com

GUIDE NAME: Mr. B. Siva Kanaka Raju

ABSTRACT:

Using contour detection, we can detect the borders of objects, and localize them easily in an image. It is often the first step for many interesting applications, such as image-foreground extraction, simple-image segmentation, detection and recognition. So let's learn about contours and contour detection, using OpenCV, and see for ourselves how they can be used to build various application .If you are interested in computer vision in C++ with the OpenCV library projects, then try implementing this project idea in the C++ language. The first step will be to convert the image into grayscale. After that, use the threshold function for setting a binary threshold for the image, in other words, further simplifying the texture of the image. You can now explore the find Contours function to identify the contours.Really cool applications have been built, using contours for motion detection or segmentation. When we join all the points on the boundary of an object, we get a contour. Typically, a specific contour refers to boundary pixels that have the same colour and intensity. OpenCV makes it really easy to find and draw contours in images. We will cover these in detail, in the examples below. The following figure shows how these algorithms can detect the contours of simple objects. Comparative image. Left image is raw input. On the right hand side, the detected contours are overlaid on input. Comparative image, input image and output with contours over. When we join all the points on the boundary of an object, we get a **Contour**. Typically, a specific contour refers to boundary pixels that have the same colour and intensity. OpenCV makes it really easy to find and draw contours in images. Converting the image to a single channel grayscale image is important for thresholding, which in turn is necessary for the contour detection algorithm to work properly. While finding contours, first always apply binary thresholding or Canny edge detection to the grayscale image. So, detecting contours plays a vital role in applications for identifying and segmenting objects in an image. A contour consists of the pixels in an object's boundary: These pixels are usually of the same color, differentiating them from the rest.

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GUIDE NAME & SIGNATURE

Mr. B. Siva Kanaka Raju

HOD-CSE(AI&ML)

Dr. J.R.V. Jeny

RTRP PROJECT ABSTRACT(B23)

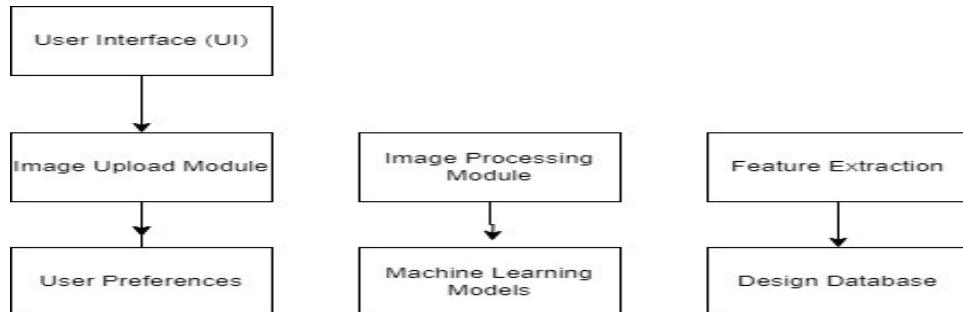
TITLE OF RTRP PROJECT: Composite Face Synthesis Using Open CV and Python			
ROLL NUMBER	STUDENT NAME	PH.NO	EMAIL ID
22891A66F3	K SHIVA PRASAD	8978987415	Kshivaprasad41@gmail.com
22891A66G1	MD MOBEEN	6302817510	md_mobeensk@gmail.com
23891A6617	CH RAJ KUMAR	6303948996	chrajkumar05@gmail.com

GUIDE NAME: Ms. B. Mounica

ABSTRACT:

In general, it is difficult to draw a clean line between the synthesis of still images and that of facial expressions. For example, the technique of synthesizing facial expression images can be directly used for generating facial expressions, and most of the facial animation systems involve the synthesis of still images. In this chapter, we focus more on the synthesis of still images and skip most of the aspects that mainly involve the motion over time. Face synthesis has many interesting applications. In the film industry, people would like to create virtual human characters that are indistinguishable from the real ones. In games, people have been trying to create human characters that are interactive and realistic. There are commercially available products that allow people to create realistic looking avatars that can be used in chat rooms, e-mail, greeting cards, and teleconferencing. Many human-machine dialog systems use realistic-looking human faces as visual representation of the computer agent that interacts with the human user. Face synthesis techniques have also been used for talking head compression in the video conferencing scenario.

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GUIDE NAME & SIGNATURE

Ms. B. Mounica

HOD-CSE(AI&ML)

Dr. J.R.V.Jeny