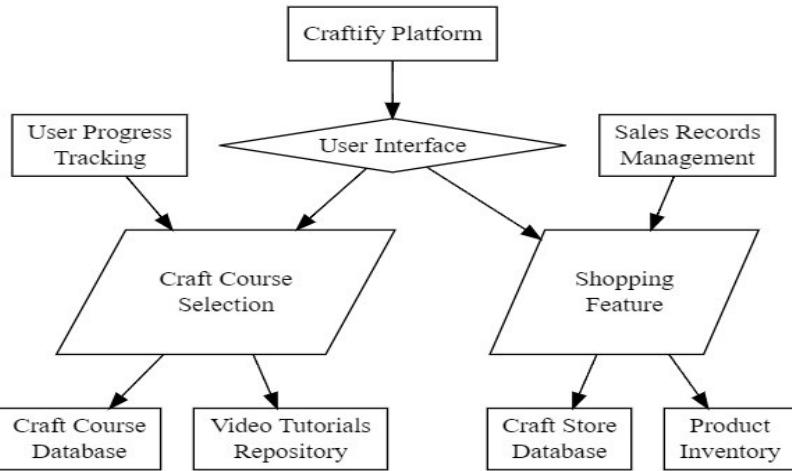


RTRP PROJECT ABSTRACT(B1)

TITLE OF RTRP PROJECT: STUDENT MENTAL HEALTH ANALYSIS			
ROLL NUMBER	STUDENT NAME	PH.NO	EMAIL ID
22891A6602	A SADVITHA	8978987415	sadvitha.aitharaju@gmail.com
22891A6601	A MANOJ REDDY	6302817510	manojreddy318@gmail.com
22891A6624	K ABHIGNA RATHOD	6303948996	abhigna.rathodk01@gmail.com
GUIDE NAME: Dr. J.R.V. Jeny			
ABSTRACT:			
<p>The "Student Mental Health Analysis" project aims to investigate the mental health challenges faced by students in educational institutions. This study focuses on identifying prevalent mental health issues, their root causes, and the impact on academic performance and overall well-being. Utilizing a mixed-methods approach, the project incorporates quantitative data from surveys and qualitative insights from interviews and focus groups. Key variables such as stress levels, anxiety, depression, and coping mechanisms are analyzed to understand the correlation between mental health and academic outcomes. The project also explores the effectiveness of existing mental health support systems and proposes evidence-based recommendations for enhancing mental health resources and interventions. By shedding light on the mental health landscape of students, this analysis seeks to inform policy makers, educators, and mental health professionals, fostering a supportive and nurturing educational environment.</p>			
BLOCK DIAGRAM / CIRCUIT DIAGRAM:			
<pre>graph TD; A[User Data Collection using Forms] --> B[Data Processing]; B --> C[Findings]; C --> D[Impact Assessment]; D --> E[Recommendation]</pre>			
GUIDE NAME & SIGNATURE		HOD-CSE(AI&ML)	

RTRP PROJECT ABSTRACT(B2)

TITLE OF RTRP PROJECT : CRAFTIFY- DO IT YOUR-SELF ACADEMY			
ROLL NUMBER	STUDENT NAME	PH.NO	EMAIL ID
22891A6608	BINGI.SOWJANYA	7794089894	Bingisowjanya3@gmail.com
22891A6647	JASHWANTH REDDY	8096419473	Jashureddy43@gmail.com
22891A6655	S.ANUDEEP REDDY	7780572782	sripathianudeepreddy@gmail.com
GUIDE NAME: Dr. K. Rama Krishna Reddy			
ABSTRACT:			
<p>Craftify – A Do-It-Yourself Academy is a groundbreaking online platform revolutionizing the world of crafting. Offering an extensive selection of craft courses spanning clay, paper, jewelry, wood, fiber, and plastic bottle crafting, Craftify serves as a comprehensive hub for enthusiasts of all skill levels. Through engaging video tutorials, users are guided through the intricacies of each craft, empowering them to unleash their creativity and explore new artistic horizons. What sets Craftify apart is its hands-on approach, encouraging users to not only learn but also actively create their own unique craft products. These creations seamlessly integrate into Craftify's shopping feature, providing users with a platform to showcase and sell their masterpieces to a global audience. Craftify fosters a vibrant community of like-minded individuals, facilitating collaboration, inspiration, and skill-sharing. Whether you're a seasoned crafter seeking new challenges or a newcomer eager to learn, Craftify offers a dynamic and immersive experience tailored to your needs. Craftify – where imagination knows no bounds, and every creation tells a story of passion and craftsmanship.</p> <p>Users are guided through the intricacies of each craft, empowering them to unleash their creativity and explore new artistic horizons. What sets Craftify apart is its hands-on approach, encouraging users to not only learn but also actively create their own unique craft products. These creations seamlessly integrate into Craftify's shopping feature, providing users with a platform to showcase and sell their masterpieces to a global audience.</p>			

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)

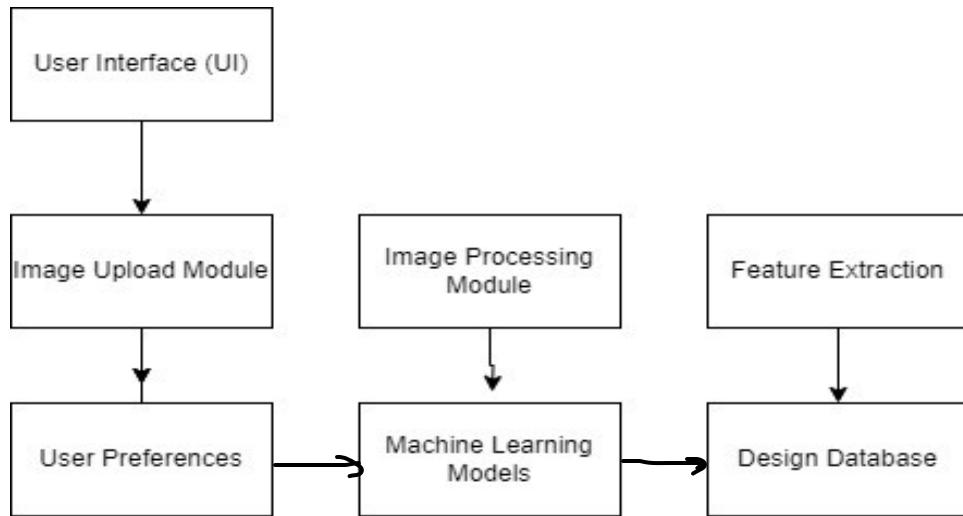
TITLE OF RTRP PROJECT: AN AI-POWERED INTERIOR DESIGN ASSISTANT			
ROLL NUMBER	STUDENT NAME	PH.NO	EMAIL ID
22891A6636	MOGILIPAKA VAISHNAVI	8978987415	mogilivaishnavi@gmail.com
22891A6643	PATHLAVATH BHASKAR	6302817510	bhaskerabdj123@gmail.com
22891A6656	SUDHINI BHAVYASRI	6303948996	bhavyasri21205@gmail.com

GUIDE NAME: Mr. B. Siva Kanaka Raju

ABSTRACT:

In the realm of interior home design, personal taste often guides individuals in creating spaces that reflect their unique preferences and styles. Our project aims to enhance this creative process by developing a sophisticated recommendation system for interior home designs. The system is designed to allow users to upload images of bedrooms or halls, enabling them to discover a curated selection of similar interior designs. Users can effortlessly upload images of their desired interior space, whether it's a bedroom or a hall. Our system employs advanced image recognition techniques to analyze these uploads. Leveraging machine learning and computer vision algorithms, the system identifies patterns, colors, furniture arrangements, and decorative elements within the uploaded image. Based on these analyses, it provides users with a tailored selection of similar interior designs from a vast database.

BLOCK DIAGRAM / CIRCUIT DIAGRAM:



GUIDE NAME & SIGNATURE

Mr. B. Siva Kanaka Raju

HOD-CSE(AI&ML)

Dr. J.R.V.Jeny

RTRP PROJECT ABSTRACT(B4)

TITLE OF RTRP PROJECT: SMARTSTYLE: PERSONALIZED OUTFIT RECOMMENDATION			
ROLL NUMBER	STUDENT NAME	PH.NO	EMAIL ID
22891A6657	Abhinay Reddy	8639981703	sabhinayr@gmail.com
22891A6654	Siddela Amulya	6303183079	amulyasiddela@gmail.com
22891A6611	Chintam Saiteja	6300870700	saitejachintham225@gmail.com

GUIDE NAME: Mr. K. Manirathnam Babu

ABSTRACT:

The project utilises a combination of computer vision, machine learning, and web development technologies to create a robust outfit recommendation system. Computer vision techniques are employed to extract features from uploaded images, such as colours, patterns, and clothing styles. Machine learning algorithms are then utilised to analyse these features and generate personalised outfit recommendations. The proposed project offers several benefits to users , Users can upload their images from the comfort of their homes and receive outfit recommendations tailored to their individual preferences and occasion requirements. By automating the outfit selection process, the system helps users save time and effort that would otherwise be spent browsing through clothing stores or seeking advice from fashion experts. The system takes into account users' unique style preferences, body types, and occasion types to provide personalised outfit recommendations that align with their individual fashion sensibilities. The project serves as a source of fashion inspiration by introducing users to new clothing styles, trends, and outfit combinations that they may not have considered otherwise. By providing users with outfit suggestions that enhance their appearance .

BLOCK DIAGRAM / CIRCUIT DIAGRAM:

```

graph TD
    UI[User Interface (UI)] --> IUM[Image Upload Module]
    IUM --> UP[User Preferences]
    IUM --> IPM[Image Processing Module]
    IPM --> FE[Feature Extraction]
    FE --> OD[Outfits Database]
    UP --> ML[Machine Learning Models]
    ML --> OD
  
```

The diagram illustrates the system architecture. It starts with a User Interface (UI) which feeds into an Image Upload Module. This module has two paths: one leading to User Preferences and another leading to an Image Processing Module. The Image Processing Module leads to Feature Extraction, which then feeds into an Outfits Database. Simultaneously, User Preferences also feeds into Machine Learning Models, which then feed into the Outfits Database.

GUIDE NAME & SIGNATURE	HOD-CSE(AI&ML)
Mr. K. Manirathnam Babu	Dr. J.R.V.Jeny

RTRP PROJECT ABSTRACT(B5)

TITLE OF RTRP PROJECT: ADVANCE ATTENDANCE PORTAL FOR VIGNAN COLLEGE			
ROLL NUMBER	STUDENT NAME	PH.NO	EMAIL ID
22891A6664	Y.V.S. LAKSHMAN	8645981712	lakshmanyvs@gmail.com
23895A6606	V. SANTHOSHINI	6304183078	santhoshini.v06@gmail.com
22891A6650	N.SAI PAWAN	6300770725	saipawan50@gmail.com
GUIDE NAME: Dr. J.R.V. JENY			
ABSTRACT: In our college, the process of attendance tracking is complex and time-consuming for teachers. Our project aims to streamline this process by developing a user-friendly website for college attendance management. The proposed system will provide a centralized platform where teachers can efficiently record attendance for each class hour. The backend of the website will generate an Excel sheet with detailed information about student attendance, including absentee records for every hour. Additionally, the system will feature advanced functionalities such as identifying students who frequently skip classes with just one click, calculating attendance percentages effortlessly, and providing individual student attendance details with ease. By implementing this solution, we aim to enhance the efficiency of attendance management in our college, saving time for teachers while providing comprehensive insights into student attendance patterns.			
BLOCK DIAGRAM / CIRCUIT DIAGRAM:			
<pre> graph LR Admin((Admin)) --> Login((Login)) Admin --> AddStudents((Add/manage Students)) Admin --> AddTeachers((Add/manage Teachers)) Admin --> TakeAttendance((Take Attendance)) Admin --> ManageAttendance((Manage Attendance)) Teacher((Teacher)) --> Login Teacher --> AddStudents Teacher --> TakeAttendance Teacher --> ManageAttendance </pre> <p>The diagram illustrates the functional flow of the system. On the left, a box labeled "Admin" contains five ovals representing functions: "Login", "Add/manage Students", "Add/manage Teachers", "Take Attendance", and "Manage Attendance". On the right, a box labeled "Teacher" contains three ovals: "Login", "Add/manage Students", and "Take Attendance". Arrows indicate the access points for each role: the Admin has access to all five functions, while the Teacher has access to three of them ("Add/manage Students", "Take Attendance", and "Manage Attendance").</p>			
GUIDE NAME & SIGNATURE		HOD-CSE(AI&ML)	

RTRP PROJECT ABSTRACT(B6)

TITLE OF RTRP PROJECT: VIDEO BASED FIRE DETECTION			
ROLL NUMBER	STUDENT NAME	PH.NO	EMAIL ID
22891A6609	B KOUSHIK	9639981702	koushik.boini113@gmail.com
22891A6622	K SRINADH	6304173079	karamkonda.srinadh@gmail.com
22891A6631	K SAI NEERAJ	6200870700	saineerajk32@gmail.com
GUIDE NAME: Mr. R. Praveen Kumar			
ABSTRACT:			
Video-based fire detection systems leverage advancements in computer vision and machine learning to enhance the early identification and mitigation of fire hazards. This project focuses on developing a robust and efficient fire detection system using video data, which can be integrated into existing surveillance infrastructures. The proposed system utilizes convolutional neural networks (CNNs) to analyze video frames for characteristic fire features such as color, shape, motion, and temporal dynamics. By training on a diverse dataset of fire and non-fire scenarios, the model achieves high accuracy in distinguishing real fire events from false alarms caused by similar visual phenomena (e.g., flashing lights, reflections). Additionally, the system incorporates real-time processing capabilities to ensure prompt detection and response. This project addresses challenges such as varying lighting conditions, occlusions, and environmental factors to improve reliability and applicability across different settings. The final implementation demonstrates the potential of video-based fire detection to enhance safety measures in residential, commercial, and industrial environments.			
BLOCK DIAGRAM / CIRCUIT DIAGRAM:			
<pre>graph TD; A[Video Input Source] --> B[Frame extraction]; B --> C[Preprocessing]; C --> D["Detection Model
(CNN)"]; D --> E[Feature Analysis and Alerting]</pre>			
GUIDE NAME & SIGNATURE		HOD-CSE(AI&ML)	
Mr. R. Praveen Kumar		Dr. J.R.V.Jeny	

RTRP PROJECT ABSTRACT(B7)

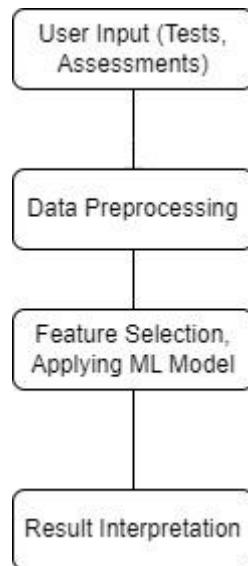
TITLE OF RTRP PROJECT: LEARNING DISABILITY DETECTOR AND CLASSIFIER SYSTEM			
ROLL NUMBER	STUDENT NAME	PH.NO	EMAIL ID
22891A6615	G RAM MANOHAR	7842450430	rammanohargadala@gmail.com
22891A6663	V ANJALI	9391063592	anjalivanaparthianjali@gmail.com
22891A6626	K SAI KRISHNA	8106038455	saik9473@gmail.com

GUIDE NAME: Mrs. M. Vineela

ABSTRACT:

This project proposes a machine learning-based system to identify and categorize learning disabilities (LD) in students. It aims to personalize the learning experience by suggesting appropriate exercises based on the identified disability. A dataset containing student information (age, etc.) and performance on various tests is collected and prepared for analysis. A classification model is trained on the prepared data. The model learns to identify patterns that differentiate students with and without learning disabilities based on their test scores. A user-friendly web interface is built using Django. It allows users to input information and take standardized tests in Math, Grammar, Reading, Memory, and Scenarios. The user's input and test performance are fed into the trained model. The model predicts the presence or absence of a learning disability and potentially classifies the specific type. Based on the identified learning disability (if any), the system recommends personalized learning exercises tailored to address the student's specific needs. This system has the potential to improve early identification of learning disabilities and provide targeted interventions for students.

BLOCK DIAGRAM / CIRCUIT DIAGRAM:



GUIDE NAME & SIGNATURE

Mrs. M. Vineela

HOD-CSE(AI&ML)

Dr. J.R.V.Jeny

RTRP PROJECT ABSTRACT(B8)

TITLE OF RTRP PROJECT: SIGNATURE ATTESTATION USING MODIFIED DIRECTION FEATURE			
ROLL NUMBER	STUDENT NAME	PH.NO	EMAIL ID
22891A6620	K SAI NAGENDER	7032976602	sainagendrakancherla@gmail.com
22891A6639	N UPENDER GOUD	8712285235	nakkaupendergoud@gmail.com
22891A6652	N SHIVANANDA	8125611423	shiva8125611423@gmail.com

GUIDE NAME: Ms. B. Mounica

ABSTRACT:

Signature verification is a form of identity verification. It works by determining whether a person's signature is genuine according to past iterations. The signature or its image is fed into a signature verification software and compared to the image on file. Our existing system handwritten character recognition using Modified Direction Feature (MDF), it is nothing but a system which recognize a hand written character Modified Direction Feature (MDF) generated encouraging results, reaching an accuracy of 81.58%. In this system each and every hand written character of a separate person is scanned and stored in database the scanned images are verified using MDF. Here we proposed a system where we normalize the signature image and system checks whether the signature matches with original signature. System applies image pre-processing steps. Image is converted to black and white image. Morphing technology is used in order to thin the image. By extracting black pixels, the curve of the signature is recognized.

BLOCK DIAGRAM / CIRCUIT DIAGRAM:

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graph TD
    SVM[Signature Verification Methods] --> TM[Template Matching]
    SVM --> S[Structural]
    SVM --> M[Measures]
    SVM --> NN[Neural Networks]
    SVM --> HMM[Hidden Markov Models]

    TM --> MD[Measures]
    S --> SM[Structural]
    M --> NN
    HMM --> NN
  
```

The diagram illustrates the various methods for signature verification. It starts with a central box labeled "Signature Verification Methods" which branches into five categories: "Template Matching", "Statistical", "Measures", "Neural Networks", and "Hidden Markov Models". "Template Matching" further branches into "Euclidean Distance", "Dynamic Time Warping (DTW)", and "Displacement Functions". "Measures" branches into "Mahalanobis Distance", "Distance Statistics", and "Membership Function". "Neural Networks" branches into "Multi-layer Perceptrons (MLPs)", "Feed-forward Nets", and "ARTMAP". "Hidden Markov Models" branches into "Left-to-Right", "Ergodic", and "Ring".

GUIDE NAME & SIGNATURE	HOD-CSE(AI&ML)
Ms. B. Mounica	Dr. J.R.V.Jeny

RTRP PROJECT ABSTRACT(B9)

TITLE OF RTRP PROJECT: AI BUSINESS GENIE CHAT			
ROLL NUMBER	STUDENT NAME	PH.NO	EMAIL ID
22891A6660	T. Manasa	8328285118	Manasamanisha24@gmail.com
22891A6618	G. Manish Reddy	7981573616	Manishreddy6039@gmail.com
22891A6625	K. Sai Sahithi	8328572257	Sahithisonu147@gmail.com
GUIDE NAME: Mr. R. Praveen Kumar			
ABSTRACT:			
<p>The proposed project aims to develop an intelligent conversational AI system akin to ChatGPT, specifically designed to assist entrepreneurs and business professionals in crafting business plans, generating investment ideas, and providing detailed steps for setting up a business. Leveraging advancements in natural language processing and machine learning, this system will offer personalized, data-driven advice by analyzing market trends, financial data, and individual business contexts. Users can interact with the system to receive comprehensive business strategies, risk assessments, and tailored action plans. The AI will integrate with various data sources, including financial databases, market research reports, and industry news, to ensure the recommendations are current and relevant. Additionally, the system will feature interactive tools for financial modeling, competitive analysis, and resource management, enabling users to make informed decisions. By streamlining the business planning process and offering expert-level insights, this project aims to democratize access to high-quality business advisory services, fostering innovation and growth in the entrepreneurial ecosystem.</p>			
BLOCK DIAGRAM / CIRCUIT DIAGRAM:			
<pre> graph TD UI[User Interface] --> TPI[NLP Initiation] TPI --> IR[Intent Recognition and content Management] IR --> BLD[Business Logic and Decision Engine] BLD --> Rec[Recommendations] </pre>			
GUIDE NAME & SIGNATURE		HOD-CSE(AI&ML)	
Mr. R. Praveen Kumar		Dr. J.R.V.Jeny	

RTRP PROJECT ABSTRACT(B10)

TITLE OF RTRP PROJECT: ADVANCED FIREARM RECOGNITION ALERT SYSTEM			
ROLL NUMBER	STUDENT NAME	PH.NO	EMAIL ID
22891A6621	K SUMANTH	9639981702	sumanth.k2@gmail.com
22891A6628	K HEMA HARINI	6304173079	khemaharini.k@gmail.com
23895A6627	K V ROHAN	6200870700	venkatarohan32@gmail.com
GUIDE NAME: Mr. P.M. Naidu			
ABSTRACT:			
<p>This project introduces an advanced Firearm Recognition and Threat Assessment System leveraging cutting-edge machine learning and computer vision methodologies. Developed using Python and Open CV, this system is capable of accurately detecting and identifying firearms in real-time from video feeds or images. By employing state-of-the-art object detection algorithms, the system enhances security protocols by providing timely alerts and threat assessments. This sophisticated solution aims to augment traditional surveillance methods, offering a highly reliable and efficient tool for enhancing public safety and security in various environments.</p>			
BLOCK DIAGRAM / CIRCUIT DIAGRAM:			
<pre> graph LR A[ACQUISITION OF IMAGE] --> B[PREPROCESSING] B --> C[FEATURE DETECTION] C --> D[FEATURE EXTRACTION] D --> E[FEATURE MATCHING] E --> F[OBJECT DETECTION] F --> G[NOTIFICATION] C -- feedback --> A </pre> <p style="text-align: center;">MODE OF IMPLEMENTATION</p>			
GUIDE NAME & SIGNATURE HOD-CSE(AI&ML) Mr. P.M. Naidu Dr. J.R.V.Jeny			

RTRP PROJECT ABSTRACT(B11)

TITLE OF RTRP PROJECT: STUDENT MENTAL HEALTH BOT			
ROLL NUMBER	STUDENT NAME	PH.NO	EMAIL ID
22891A6602	A SADVITHA	8978987415	sadvitha.aitharaju@gmail.com
22891A6601	A MANOJ REDDY	6302817510	manojreddy318@gmail.com
22891A6624	K ABHIGNA RATHOD	6303948996	abhigna.rathodk01@gmail.com

GUIDE NAME: Mr. R. Praveen Kumar

ABSTRACT:

The Student Mental Health Bot project aims to investigate the mental health challenges faced by students in educational institutions. This study focuses on identifying prevalent mental health issues, their root causes, and the impact on academic performance and overall well-being. Utilizing a mixed-methods approach, the project incorporates quantitative data from surveys and qualitative insights from interviews and focus groups. Key variables such as stress levels, anxiety, depression, and coping mechanisms are analyzed to understand the correlation between mental health and academic outcomes. The project also explores the effectiveness of existing mental health support systems and proposes evidence-based recommendations for enhancing mental health resources and interventions. By shedding light on the mental health landscape of students, this analysis seeks to inform policy makers, educators, and mental health professionals, fostering a supportive and nurturing educational 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: DATA LEAKAGE DETECTION			
ROLL NUMBER	STUDENT NAME	PH.NO	EMAIL ID
22891A6659	T ARAVIND	9639981702	aravind.t1@gmail.com
22891A6603	A UDAY KIRAN	6304173079	udaykiran.a03@gmail.com
22891A6637	MD NADEEM	6200870700	mdnadeem42@gmail.com
GUIDE NAME: Mr. R. Praveen Kumar			
ABSTRACT:			
<p>Data leakage can be defined as an event in which classified information, e.g. sensitive, protected or confidential data has been viewed, stolen or used by somebody who is not authorized to do so. Data leakage causes serious and expensive problems to companies and organizations, because the number of events continues to rise. Data leak prevention helps ensure that confidential data like customer information, personal employee information, trade secrets, financial data and research and development data remains safe and secure. Data leak prevention solutions prevent confidential data by securing the data itself. Once most critical data and its location are identified on the network, it can be monitored to determine who is accessing and using it; where it is being sent, copied, or transmitted. A number of methods and systems have been developed to prevent data leakage. However, data leakage detection systems cannot provide absolute protection.</p>			
BLOCK DIAGRAM / CIRCUIT DIAGRAM:			
<pre> graph LR A[Web data sources] --> B[DATA LEAKAGE DETECTION SYSTEM] C[Confidential documents] --> B B -- "DATA LEAKAGE" --> D[] B -- "NO PROBLEM" --> E[] </pre>			
GUIDE NAME & SIGNATURE		HOD-CSE(AI&ML)	
Mr. R. Praveen Kumar		Dr. J.R.V.Jeny	

RTRP PROJECT ABSTRACT(B13)

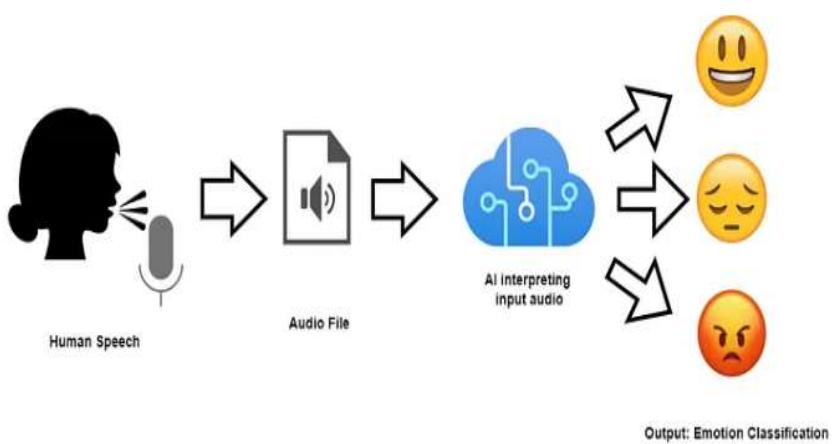
TITLE OF RTRP PROJECT: SPEECH EMOTION ANALYZER			
ROLL NUMBER	STUDENT NAME	PH.NO	EMAIL ID
22891A6646	P VAISHNAVI	9639981702	vaishnavi.poojari@gmail.com
22891A6619	T JAGADESWAR	6304173079	jagadeswar.t19@gmail.com
22891A6633	SOMESHWAR RAO	6200870700	someshwarrao.m3@gmail.com

GUIDE NAME: Mr. M. Mahesh

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:



```

graph LR
    HS[Human Speech] --> AF[Audio File]
    AF --> AI[AI interpreting input audio]
    AI --> O[Output: Emotion Classification]
    O -- smiley face --> S[Smiley Face]
    O -- neutral face --> N[Neutral Face]
    O -- angry face --> A[Angry Face]

```

GUIDE NAME & SIGNATURE

Mr. M. Mahesh

HOD-CSE(AI&ML)

Dr. J.R.V.Jeny

RTRP PROJECT ABSTRACT(B14)

TITLE OF RTRP PROJECT: ACCIDENT DETECTION USING CNN MODEL			
ROLL NUMBER	STUDENT NAME	PH.NO	EMAIL ID
22891A6607	B SHREYA	7842450430	shreya.bijja07@gmail.com
22891A6612	C SHALEM RAJU	9391063592	shalemraju.ch@gmail.com
22891A6604	A HARSHA	8106038455	harshabharadwaj.a04@gmail.com
GUIDE NAME: Mrs. M. Vineela			
ABSTRACT:			
Accidents are a leading cause of injuries and fatalities worldwide, necessitating rapid and accurate detection methods to enhance emergency response and save lives. This project presents a robust accident detection system leveraging Convolutional Neural Networks (CNNs) to analyze and identify accident scenarios from video feeds or images. By employing deep learning techniques, the proposed system can efficiently process visual data, discerning accidents from normal traffic conditions with high accuracy. The CNN model is trained on a comprehensive dataset comprising diverse accident and non-accident scenes, ensuring its effectiveness across various environments and conditions. Performance evaluation demonstrates the model's proficiency in real-time accident detection, showcasing its potential to be integrated into smart surveillance systems, vehicular networks, and emergency management frameworks. This innovation aims to significantly reduce response times and improve the overall safety of road networks by providing immediate alerts to relevant authorities and services.			
BLOCK DIAGRAM / CIRCUIT DIAGRAM:			
<pre> graph TD UI[User Interface (UI)] --> IUM[Image Upload Module] IUM --> UP[User Preferences] IUM --> IPM[Image Processing Module] IUM --> FE[Feature Extraction] UP --> CNN[CNN Model] IPM --> CNN FE --> CNN CNN --> ID[Image Database] </pre> <p>The diagram illustrates the flow of data in the accident detection system. It begins with a User Interface (UI) which feeds into an Image Upload Module. From the Image Upload Module, data splits into three parallel paths: one leading to User Preferences, another to an Image Processing Module, and a third to Feature Extraction. The User Preferences and Image Processing Module both feed into a central CNN Model. The Feature Extraction module also feeds into the CNN Model. Finally, the CNN Model outputs to an Image Database.</p>			
GUIDE NAME & SIGNATURE		HOD-CSE(AI&ML)	
Mrs. M. Vineela		Dr. J.R.V.Jeny	

RTRP PROJECT ABSTRACT(B15)

TITLE OF RTRP PROJECT: VOICE BASED EMAIL FOR VISUALLY CHALLENGED			
ROLL NUMBER	STUDENT NAME	PH.NO	EMAIL ID
22891A6644	P ARAVIND	9639981702	aravind.p644@gmail.com
22891A6629	K SATHVIKA	6304173079	sathvika.kotra@gmail.com
23895A6605	B NISHITHA	6200870700	nishitha605.bantu@gmail.com
GUIDE NAME: Mr. P.M. Naidu			
ABSTRACT:			
<p>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.</p>			
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] </pre> <p>The diagram illustrates the flow of the system. It starts with 'User Voice as Input' which is converted into an audio signal via a 'Microphone'. This signal then undergoes 'Speech Recognition'. From the 'Speech Recognition' module, two paths emerge: one leading to the 'Email Module' and another leading to the 'Text-to-Speech Module'. Finally, the 'Email Module' connects to the 'Email Server'.</p>			
GUIDE NAME & SIGNATURE		HOD-CSE(AI&ML)	
Mr. P.M. Naidu		Dr. J.R.V.Jeny	

INNOVATIVE PROJECT ABSTRACT(B16)

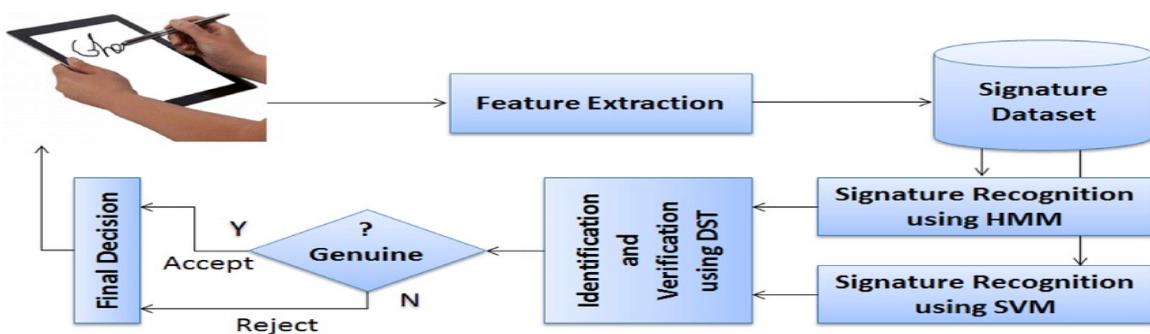
TITLE OF INNOVATIVE PROJECT: AUTOMATED SIGNATURE AUTHENTICATION			
ROLL NUMBER	STUDENT NAME	PH.NO	EMAIL ID
22891A6661	TYARALA SAMIKSHA	95029 63169	thyaralasamiksha@gmail.com
22891A6648	RAGIPANI SOWMYA	7989387252	sowmyaragipani10@gmail.com
22891A6613	D SRIKANTH	6309 659 434	srikanthsri0702@gmail.com

GUIDE NAME: Mr. P.M. Naidu

ABSTRACT

Signatures are popularly used as a method of personal identification and confirmation. Many certificates such as bank checks and legal activities need signature verification. Verifying the signature of a large number of documents is a very difficult and time-consuming task. As a result, explosive growth has been observed in biometric personal verification and authentication systems that relate to unique quantifiable physical properties (fingerprints, hand, and face, ear, iris, or DNA scan) or behavioral characteristics (gait, sound, etc.). Several methods are used to describe the ability of the suggested system in specifying the genuine signatures from the forgeries. The theoretical average accuracy of the recognition rate was 97.28%, and the average recognition rates for the original signatures, simple forged signatures, and skilled forged signatures that were collected after 2 months were 91.25%, 95.63%, and 85.63%, respectively.

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: CERTIFICATE VALIDATION USING QR CODE			
ROLL NUMBER	STUDENT NAME	PH.NO	EMAIL ID
22891A6662	SAI MANISH GOUD	9639981702	sai_manishgoud62@gmail.com
22891A6653	SLOKA VARKALA	6304173079	shlokavarkala.sh@gmail.com
22891A6616	G V DHEERAJ	6200870700	venkatadheeraj_g@gmail.com
GUIDE NAME: Mr. R. Praveen Kumar			
ABSTRACT: The "Certificate Validation Using QR Code" project aims to develop a secure and efficient method for authenticating certificates through the use of Quick Response (QR) codes. Traditional paper-based certificates are prone to forgery and require manual verification processes, which can be time-consuming and error-prone. This project leverages the ubiquity and convenience of QR codes to streamline the validation process and enhance security. In this system, certificates are issued with unique QR codes that contain encrypted information about the certificate's authenticity and details. When a certificate needs to be validated, the QR code can be scanned using a smartphone or a QR code reader, which then decrypts the information and verifies it against a secure database. This method ensures that the certificate is genuine and has not been tampered with.			
BLOCK DIAGRAM / CIRCUIT DIAGRAM: <pre>graph TD; A[Upload Certificate] --> B[QR Code Analysis]; B --> C["encrypt-decrypt mechanism"]; C --> D[QR CODE Generation]; C --> E["QR CODE detection and decrypting"]; E --> F[Declaration of Fake or Not]</pre>			
GUIDE NAME & SIGNATURE		HOD-CSE(AI&ML)	
Mr. R. Praveen Kumar		Dr. J.R.V.Jeny	

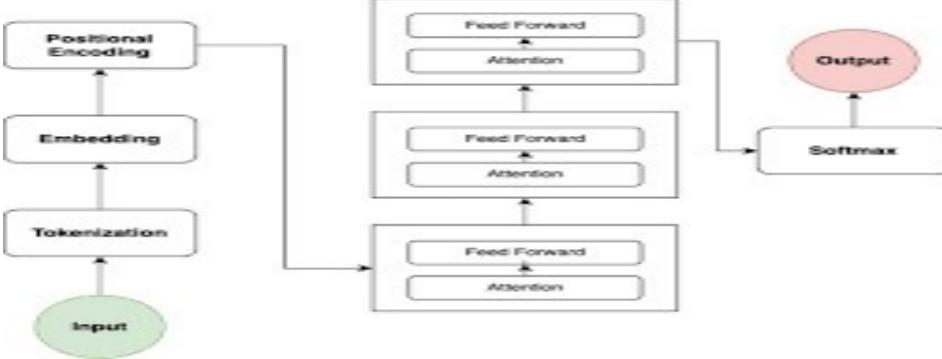
RTRP PROJECT ABSTRACT(B18)

TITLE OF RTRP PROJECT: SMART HOME SURVEILLANCE			
ROLL NUMBER	STUDENT NAME	PH.NO	EMAIL ID
22891A6632	M SAMSKRUTHI	7013358119	samskruthinaidu369@gmail.com
22891A6640	P UDAY KIRAN	9542473324	udaykiranreddypadira@gmail.com
22891A6630	K SAITEJA	6281932716	saitejatejagou@gmail.com
GUIDE NAME: Mr. K. Manirathnam Babu			
ABSTRACT <p>In the era of advancing technology, smart home surveillance systems have become integral components of modern households. This project introduces an innovative smart home surveillance solution that leverages computer vision and web technologies to enhance home security. The system is built on the Flask web framework, providing a user-friendly interface for monitoring live video feeds remotely. Smart home surveillance systems empower homeowners with enhanced control, visibility, and automation over their home security. These systems offer a holistic approach to monitoring, leveraging the capabilities of interconnected devices to provide a comprehensive and intelligent solution for safeguarding residential spaces.</p>			
BLOCK DIAGRAM / CIRCUIT DIAGRAM: <pre> graph TD Start([Start]) --> Init[Program Initializes] Init --> Live[Live Videostreaming] Live --> Face{Face + motion detected using camera?} Face -- No --> Live Face -- Yes --> Interval{Interval for uploaded frame > 3 seconds?} Interval -- Yes --> Capture[Capture the current frame] Capture --> Send[Send captured frame to email] Send --> Live Interval -- No --> Live Capture --> End([End]) Send --> End End --> EndProgram[End program] EndProgram --> Live </pre>			
GUIDE NAME & SIGNATURE Mr. K. Manirathnam Babu		HOD-CSE(AI&ML) Dr. J.R.V.Jeny	

RTRP PROJECT ABSTRACT(B19)

TITLE OF RTRP PROJECT: TOLET FINDER			
ROLL NUMBER	STUDENT NAME	PH.NO	EMAIL ID
22891A6645	P RAJ PRANAY	9639981702	rajpranay.p6@gmail.com
22891A6638	M ABHINANDANA	6304173079	abhinandana_muthyala@gmail.com
23895A6601	K SAITEJA	6200870700	saiteja_kalvani@gmail.com
GUIDE NAME: Mr. R. Praveen Kumar			
ABSTRACT:			
Tolet Finder is an innovative platform designed to streamline the accommodation search process for travelers seeking affordable lodging. By leveraging geolocation technology, the application allows users to discover the nearest available accommodations that fit within their budget. The primary objective of Tolet Finder is to enhance the travel experience by providing a user-friendly interface that efficiently matches travelers with suitable lodging options. The platform aggregates data from various sources, offering a comprehensive list of accommodations ranging from hotels and hostels to vacation rentals and short-term sublets. Additionally, Tolet Finder incorporates user reviews, ratings, and detailed descriptions to assist travelers in making informed decisions. Through its emphasis on affordability and convenience, Tolet Finder aims to become an indispensable tool for travelers worldwide, ensuring that finding a place to stay is a hassle-free and seamless experience.			
BLOCK DIAGRAM / CIRCUIT DIAGRAM:			
<pre> graph TD UI[User interface] --> SP[search parameters] SP --> GLAPI[GPS Location API] GLAPI --> RHO[Registered House Owners] GLAPI --> TT[Tenants/ Travelers] RHO <--> IIBC[Integration of both clients] TT <--> IIBC </pre> <p>The diagram illustrates the system architecture of Tolet Finder. It starts with a 'User interface' which feeds into 'search parameters'. These parameters are then processed by the 'GPS Location API'. The API then branches into two paths: one for 'Registered House Owners' and another for 'Tenants/ Travelers'. Both of these paths converge at a final box labeled 'Integration of both clients'.</p>			
GUIDE NAME & SIGNATURE		HOD-CSE(AI&ML)	
Mr. R. Praveen Kumar		Dr. J.R.V.Jeny	

RTRP PROJECT ABSTRACT(B20)

TITLE OF RTRP PROJECT: AI-DIGITAL CONTENT MAESTRO			
ROLL NUMBER	STUDENT NAME	PH.NO	EMAIL ID
22891A6634	MAMIDI RAHUL	7569259204	viratrahul1601@gmail.com
22891A6614	D SRILAXMI	7093729397	srilaxmireddy435@gmail.com
23895A6602	GAJULA NIKITHA	6304715546	nikkigajula2005@gmail.com
GUIDE NAME: Mr. K. Manirathnam Babu			
<p>ABSTRACT: The AI-powered social media content generator is a system designed to create engaging and relevant content for various social media platforms automatically. Utilizes OpenAI's powerful language models like GPT (Generative Pre-trained Transformer) for generating text. Integrates with OpenAI API for accessing language model capabilities. Involves STREAMLIT library for building the user interface where users input their preferences and view generated content. Could involve Python, for processing user inputs, interacting with OpenAI API, and serving generated content, LangChain a Python library that serves as a powerful tool in building applications powered by large language models (LLMs) such as GPT models. When it comes to Existing Systems vs Our model , we conclude that by leveraging state-of-the-art language models like GPT, the system can produce more coherent, contextually relevant, and engaging content compared to simpler rule-based or template-based approaches.</p> <p>- Personalization: The system can offer more personalized content tailored to individual user preferences, whereas many existing systems may rely on generic templates.</p>			
<p>BLOCK DIAGRAM / CIRCUIT DIAGRAM:</p>  <pre> graph TD Input((Input)) --> Tokenization[Tokenization] Tokenization --> Embedding[Embedding] Embedding --> PositionalEncoding[Positional Encoding] PositionalEncoding --> Layer1[Attention
Feed Forward] Layer1 --> Layer2[Attention
Feed Forward] Layer2 --> Layer3[Attention
Feed Forward] Layer3 --> Softmax[Softmax] Softmax --> Output((Output)) </pre>			
GUIDE NAME & SIGNATURE		HOD-CSE(AI&ML)	
Mr. K. Manirathnam Babu		Dr. J.R.V.Jeny	

RTRP PROJECT ABSTRACT(B21)

TITLE OF RTRP PROJECT: IMAGE ZOOMING ANALYSIS USING HAND GESTURES

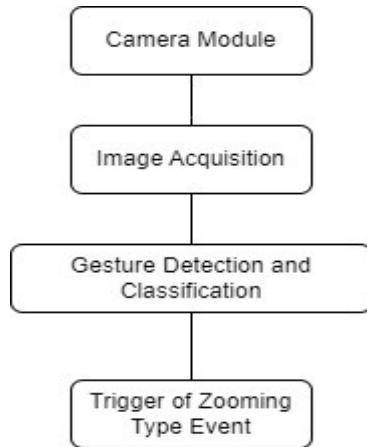
ROLL NUMBER	STUDENT NAME	PH.NO	EMAIL ID
22891A6606	DENESH KUMAR	7569888133	deneshkumar248@gmail.com
22891A6641	SANTHOSH	6281975088	santhosh@gmail.com
22891A6649	RAMAVATH BABU	6301095055	ramavathb12@gmail.com
22891A6606	SANJANA	9949324023	sanjana006@gmail.com

GUIDE NAME: Mr. K. Manirathnam Babu

ABSTRACT:-

The advancement of user interface technologies has significantly enhanced user interaction with digital devices. This project, "Image Zooming Analysis using Hand Gestures," explores a novel approach to image zooming control through hand gestures. By leveraging computer vision and machine learning techniques, this system enables intuitive and natural manipulation of digital images without the need for physical input devices. The project focuses on analyzing and interpreting hand gestures captured via a camera to dynamically adjust the zoom level of an image. Key components of the system include gesture recognition algorithms, real-time processing of visual input, and feedback mechanisms to ensure accurate and responsive user interactions. The effectiveness of the system is evaluated through a series of tests to assess its performance in various scenarios, including different lighting conditions and gesture variations. Results demonstrate the potential for hand gesture-based zooming to enhance user experience in image editing and viewing applications.

BLOCK DIAGRAM / CIRCUIT DIAGRAM:



GUIDE NAME & SIGNATURE

Mr. K. Manirathnam Babu

HOD-CSE(AI&ML)

Dr. J.R.V.Jeny

RTRP PROJECT ABSTRACT(B22)

TITLE OF RTRP PROJECT: DYNAMIC LIVESTOCK QUANTIFICATION USING YOLOV8

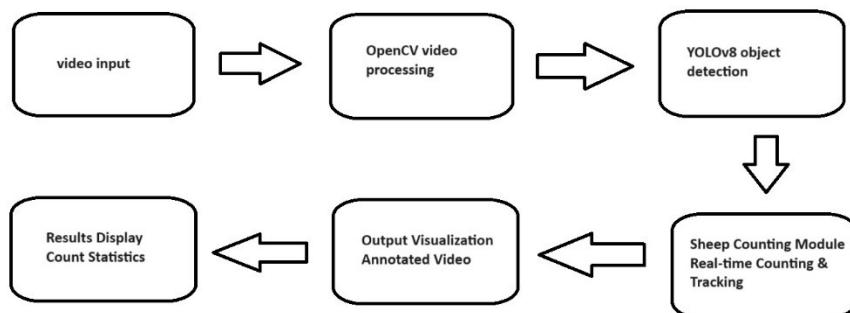
ROLL NUMBER	STUDENT NAME	PH.NO	EMAIL ID
22891A6623	KATEPALLY PAVAN KUMAR	8712724871	katepallypavankumar1911@gmail.com
22891A6635	MANDADAPU SAIPRIYA	8639385207	saipriyamandadapu2004@gmail.com
23895A6604	CHAKRA KIRTHI VARDHAN	9441782021	kirthivardhan007@gmail.com
23895A6605	GADDAM VARSHITH	9502492139	varshithg2004@gmail.com

GUIDE NAME:

ABSTRACT:-

Accurately counting livestock, such as sheep, in agricultural settings has long been a challenging task due to the need for manual counting, which is time-consuming and prone to errors. To address this challenge, we present a novel solution leveraging state-of-the-art deep learning techniques. Our approach utilizes the YOLOv8 object detection model implemented with the Ultralytics library, combined with OpenCV for real time video processing. The system automatically detects and tracks sheep in video footage, providing both real-time counts and cumulative totals. By integrating advanced computer vision algorithms, our tool offers a reliable and efficient method for monitoring livestock populations, enabling farmers and agricultural researchers to make informed decisions and optimize livestock management practices. This innovative solution represents a significant advancement in livestock counting technology, offering improved accuracy, efficiency, and scalability compared to traditional manual counting methods.

BLOCK DIAGRAM / CIRCUIT DIAGRAM:



GUIDE NAME & SIGNATURE

Mrs. M. Vineela

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Dr. J.R.V.Jeny