



# **MALLA REDDY ENGINEERING COLLEGE FOR WOMEN**

**Autonomous Institution – UGC, Govt. of India**

**Accredited by NBA & NAAC with 'A' Grade**

NIRF Indian Ranking, Accepted by MHRD, Govt. of India | Band – Excellent, National Ranking by ARIIA

Maisammaguda, Dhulapally, Secunderabad – 500 010, Telangana

## **A.Y : 2022-23 VOL.2**

Under  
Student Chapter ISTE, CSI & Technical Association INFOSPARK

# **INSPERON**

**HALF YEARLY TECHNICAL MAGAZINE**

**DEPARTMENT OF  
INFORMATION TECHNOLOGY**

**IT**

## DEPARTMENT VISION

To emerge as a center of excellence in the department of IT is to empower students with new wave technologies to produce technically proficient and accomplished intellectual IT professionals specifically to meet the modern challenges of the contemporary computing industry and society.

Providing the students with most conducive academic environment and making them towards serving the society with advanced technologies.

### Vision



## DEPARTMENT MISSION

The mission of the department of Information Technology is to afford excellence education for students, in the conventional and modern areas of information technology and build up students with high-quality principled trainings, thus manifesting their global personality development.

To impart holistic technical education using the best of infrastructure, outstanding technical and teaching expertise.

Training the students into competent and confident world class professionals with excellent technical and communication skills.

To provide quality education through innovative teaching and learning process that yields advancements in state-of-the-art information technology.

To inculcate the spirit of ethical values contributing to the welfare of the society by offering courses in the curriculum design.

### Mission



## ABOUT THE DEPARTMENT

The Dept. of Information Technology with an intake of 180 in B.Tech Programme The programmes ensure that the student effectively meets the highest benchmarks of competence required by the industry.

The Department has state of the art laboratories with latest software's like Windows 2008, Visual Studio 2012, Eclipse, WinRunner, QTP, J2EE, .NET, Fedora & Weka Tool.

The Dept established IEEE & ISTE student chapters and department Technical Association - CYNOSURES under which it organizes National level Technical Symposium - FUTURE SASTRA and State level Technical Symposium - MEDHA every academic year and Student Development Programmes like Workshop on Web Designing, Android & its Application, ADOBE PhotoShop, Ethical Hacking and HTML5.

The Department also organizes Pre-placement training programmes on C-Skills, Java Skills and Project Based training programmes on C, C++, JAVA and Web Technologies and also organizes Intra College Student Conferences on Network Security and Data Base Management Systems and Recent Advancements in Computer Science and also organizes regular student seminar sessions of two hours per week for I - IV B.Tech student to enhance their all round performance.

The Department also offers Value added Certification Courses BEC, Microsoft and CISCO certification through Business English Certification in association with Cambridge University, London, U.K., Microsoft & CISCO Certification through Center for Development of Communication Skills, Microsoft Innovation Center and CISCO Networking Academy respectively. More than 85% of students are placed in MNC s like Campgemini, WIPRO, TCS, IBM, NTT Data, HCL, Tech Mahindra, etc. The Department also publishes the Registered Journal "International Journal of Research in Signal Processing, Computing and Communication-System design (IJRSCSD) with an ISSN: 2395-3187.

## PO'S

<b>PO1</b>	<b>Engineering knowledge</b>	An ability to apply knowledge of mathematics (including probability & statistics and Mathematical Foundation of Computer science and Engineering.
<b>PO2</b>	<b>Problem analysis</b>	An ability to design and conduct experiments, as well as to analyze and interpret data including hardware and software components.
<b>PO3</b>	<b>Design / development of solutions</b>	An ability to design a complex computing system or process to meet desired specifications and needs.
<b>PO4</b>	<b>Conduct investigations of complex problems</b>	Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
<b>PO5</b>	<b>Modern tool usage</b>	An ability to use the techniques, skills and modern engineering tools necessary for engineering practice.
<b>PO6</b>	<b>The engineer and society</b>	An ability to understanding of professional, health, safety, legal, cultural and social responsibilities.
<b>PO7</b>	<b>Environment and sustainability</b>	The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental and demonstrate the knowledge need for sustainable development.
<b>PO8</b>	<b>Ethics</b>	Apply ethical principles, responsibility and norms of the engineering practice
<b>PO9</b>	<b>Individual and team work</b>	An ability to function on multi-disciplinary teams.
<b>PO10</b>	<b>Communication</b>	An ability to communicate and present effectively
<b>PO11</b>	<b>Project management and finance</b>	An ability to use the modern engineering tools, techniques, skills and management principles to do work as a member and leader in a team, to manage projects in multi-disciplinary environments
<b>PO12</b>	<b>Life-long learning</b>	A recognition of the need for, and an ability to engage in, to resolve contemporary issues and acquire lifelong learning

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## PSO'S

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**The graduates of the department will attain:**

**PSO1:** The ability to analyze a problem, design algorithm, identify and define the computing requirements within realistic constraints in multidisciplinary areas by understanding the core principles and concepts of Information Technology

**PSO2:** Knowledge of data management system like data acquisition, big data so as to enable students in solving problems using the techniques of data analytics like pattern recognition and knowledge discovery.

**PSO3:** Effectively integrate IT based solutions into the user environment.

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## PEO'S

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### PEO1

- Apply current industry computing practices and emerging technologies to analyze, design, implement, test and verify IT based solutions to real world problems.

### PEO2

- To produce employable graduates who will be placed in various engineering positions in the computational world in firms of international repute.

### PEO3

- To pursuit of advanced degrees in engineering at different levels of research and consultancy. They get exposed to several other domains resulting in lifelong learning to broaden their professional knowledge.

### PEO4

- Use theoretical and practical concepts of various domains to realize new ideas and innovations, entrepreneurship, employment and higher studies.

## MESSAGES

## Founder Chairman's Message

**Ch. Malla Reddy**

Founder Chairman, MRGI  
Hon'ble Minister, Govt. of Telangana  
State

MRECW has made tremendous progress in all areas and now crossing several milestones within a very short span of time and now I feel very happy to know that the students and faculty of the IT department of MRECW are bringing out the volume-1 of the Technical magazine INSUPERON in A.Y 2022-23. As I understand this magazine is intended to bring out the inherent literary talents in the students and the teachers and also to inculcate leadership skills among them. I am confident that this issue will send a positive signal to the staff, students and the persons who are interested in the educational and literary activities

## Principal's Message

I congratulate the department of IT, MRECW for bringing out the first issue of the prestigious half yearly department technical Magazine INSUPERON under A.Y: 2022-23, I am sure that the magazine will provide a platform to the students and faculty members to expand their technical knowledge and sharpen their hidden literary talent and will also strengthen the all round development of the students. I am hopeful that this small piece of literary work shall not only develop the taste for reading among students but also develop a sense of belonging to the institution as well. My congratulations to the editorial board who took the responsibility for the arduous task most effectively. I extend best wishes for the success of this endeavor.

**Dr. Y. Madhavee Latha**

Principal

## HOD'S MESSAGE

INSUPERON-2023, Our Department magazine show cases the various achievements and talents of students. The primary objective of the department has been to impart quality technical education to the students. We providing the students with most conducive academic environment and making them towards serving the society with advanced technologies. Our department provides training sessions, workshops, hands-on, webinars, Industrial visits, Internships and Personality development classes. I am privileged to offer my best wishes. I congratulate students who have contributed their articles in huge volume.

**Dr. Subba Reddy Borra**

HOD

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## FACULTY ARTICLES

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### **BULLYNET: UNMASKING CYBERBULLIES ON SOCIAL NETWORKS**

Cyber bullying is the utilization of technology as a medium to menace somebody. Social networking sites give a prolific medium for menaces who utilize these sites to assault or harass helpless youthful grownups. Through Machine learning, we can distinguish language designs utilized by menaces and create rules to consequently recognize digital harassing content. Most of the works related to cyberbullying detection using machine learning have been proposed on languages such as English, Chinese and Arabic. Very few works have been done on regional Indian languages. In this paper, we have proposed a model that recognizes cyberbullying content in an uncommon or rather regional Indian language



**Dr. SUBBA REDDY BORRA**  
Professor & Head/IT

### **Predicting Power Utilization In Large Vehicles Using ML**

Instead of the conventional time period, we employed the vehicle trip distance while creating customized machine learning models for fuel use. Seven predictors generated from vehicle speed and road grade are combined with this method to create a highly predictive neural network model for average fuel consumption in large vehicles. To reduce fuel usage across the board, the suggested methodology can be quickly established and implemented for each individual vehicle in a fleet. The model's predictors are combined over predetermined window sizes for distance travelled. The evaluation of various window widths reveals that a 1 km window has a 0.91 coefficient of determination and a mean absolute peak-to-peak percent error that is less.



**Dr. K. JAYARAJAN**  
Professor

## Net Helplessness Detection: The Case of Cross Site Request Forger

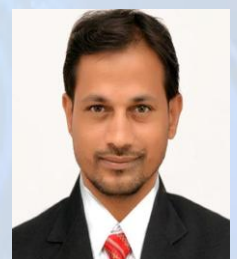
In this project, we propose a methodology to leverage Machine Learning (ML) for the detection of web application vulnerabilities. Web applications are particularly challenging to analyse, due to their diversity and the widespread adoption of custom programming practices. ML is thus very helpful for web application security: it can take advantage of manually labeled data to bring the human understanding of the web application semantics into automated analysis tools. We use our methodology in the design of Mitch, the first ML solution for the black-box detection of Cross-Site Request Forgery (CSRF) vulnerabilities. Mitch allowed us to identify 35 new CSRFs on 20 major websites and 3 new CSRFs on production software.



**Dr. SMITA KHOND**  
Associate professor

## BSSPD: A Block Chain-Based Security Sharing Scheme for Personal Data with Fine Grained Access Control

Privacy protection and open sharing are the core of data governance in the AI-driven era. A common data-sharing management platform is indispensable in the existing data-sharing solutions, and users upload their data to the cloud server for storage and dissemination. However, from the moment users upload the data to the server, they will lose absolute ownership of their data, and security and privacy will become a critical issue. Although data encryption and access control are considered up-and-coming technologies in protecting personal data security on the cloud server, they alleviate this problem to a certain extent. However, it still depends too much on a third-party organization's credibility, the Cloud Service Provider (CSP). In this paper, we combined block chain, cipher text-policy attribute-based encryption (CP-ABE) and Inter Planetary File System (IPFS) to address this problem to propose a block chain-based security sharing scheme for personal data named BSSPD.

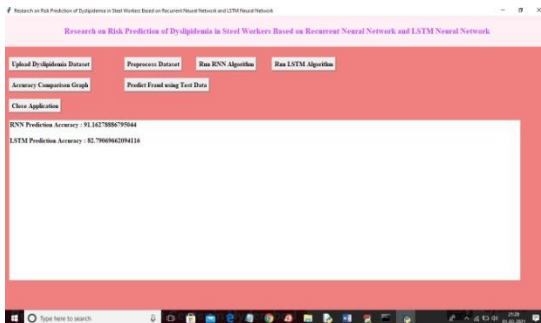


**Mr. K.KUMARA SWAMY**  
Assistant professor



## STUDENT ARTICLES

## RNN AND LSTM NETWORKS FOR RISK PREDICTION OF DYSLIPIDEMIA IN STEEL AND IRON WORKERS



With the development of medical digitization technology, artificial intelligence and big data technology, the medical model is gradually changing from treatment-oriented to prevention-oriented. In recent years, with the rise of artificial neural networks, especially deep learning, great achievements have been made in realizing image classification, natural language processing, text processing and other fields. Combining artificial intelligence and big data technology for disease risk prediction is a research focus in

the field of intelligent medicine. Blood lipids are the main risk factors of cardiovascular and cerebrovascular diseases. If early prediction of abnormal blood lipids in iron and steel workers can be carried out, early intervention can be carried out, which is beneficial to protect the health of iron and steel workers

G.MAHALAKSHMI(19RH1A1258), A.VASAVI(19RH1A1206), G.SRI HARSHINI(19RH1A1256)

## HUMAN ACTIVITY RECOGNITION USING MACHINE LEARNING WITH DATA ANALYSIS

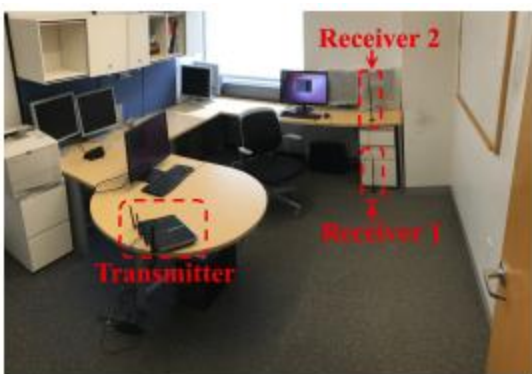
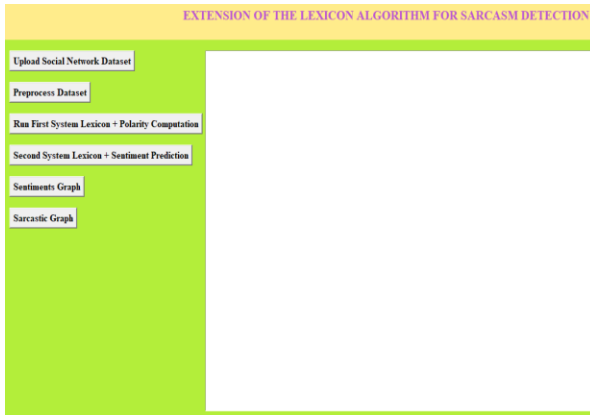


Fig : Experimental setting for human activity recognition with WiFi signals.

Human Movement Acknowledgment is a functioning field of research and logical improvement in which different model shave been proposed involving various techniques for distinguishing proof what's more, order of exercises utilizing AI. The highlights of picture or video informational index are extricated utilizing unique motor models related with spatial or fleeting component inclining. Additionally, many profound layer prepared models have been effectively utilized in this field to arrive at the principal objective of this model which is acknowledgment and classification of movement occurring. These exercises can be of various fluctuating nature for example, everyday exercises like running, eating, sitting, and so forth. There can be various kinds of exercises in various fields like medical care, childcare, security or work wellbeing

K.SHRAVYA(19RH1A1277), K.BHAVANI(19RH1A1268), M.SATHVIKA(19RH1A1295)

## NLP-BASED EXTENDED LEXICON MODEL FOR SARCASM DETECTION WITH TWEETS AND EMOJIS



Lexicon algorithm is used to determine the sentiment expressed by a textual content. This sentiment might be negative, neutral, or positive. It is possible to be sarcastic using only positive or neutral sentiment textual contents. Hence, lexicon algorithm can be useful but yet insufficient for sarcasm detection. It is necessary to extend the lexicon algorithm to come out with systems that would be proven efficient for sarcasm detection on neutral and positive sentiment textual contents. In this paper, two sarcasm analysis systems both obtained from the extension of the lexicon algorithm have been proposed for that sake. The first system consists of

the combination of a lexicon algorithm and a pure sarcasm analysis algorithm. The second system consists of the combination of a lexicon algorithm and a sentiment prediction algorithm.

K.RITIKA (19RH1A12F4), N.DEEKSHITHA REDDY(19RH1A12C5), N.AKSHAYA REDDY(19RH1A12C6)

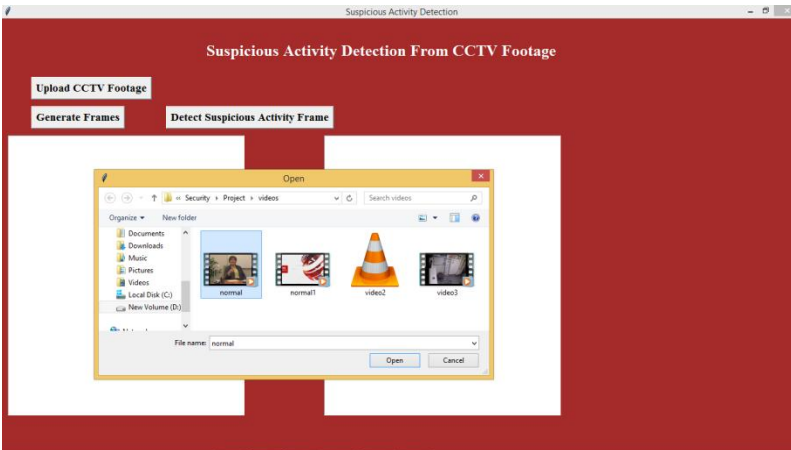
## NARCOTRAFFIC REPORT

This document provides an overview of the illicit drug trade in the Western Hemisphere. Drug trafficking is primarily thought of as a problem for countries on the receiving end. The exchange of dollars for drugs remains one of the few predictable flows of hard currency from the North to the South. However, drug trafficking extracts a heavy price at both ends and this effect is particularly notable through the analysis of increased drug-related violence in every country of the Americas. The impact is most acute in countries struggling with development and governance and the effect is cyclic, drug trafficking weakens the rule of law which, in turn, facilitates more drug trafficking. Despite government efforts, virtually

every country in the Americas is either affected by drug production, used as a transit country for trafficking, or imports drugs. The main drug of concern is cocaine, but heroin and cannabis are also in high demand.

B.GAYATHRI(20RH1A1214), B.REKHA(20RH1A1215), B.AKSHITHA(20RH1A1216)

## CRIME DETECTOR

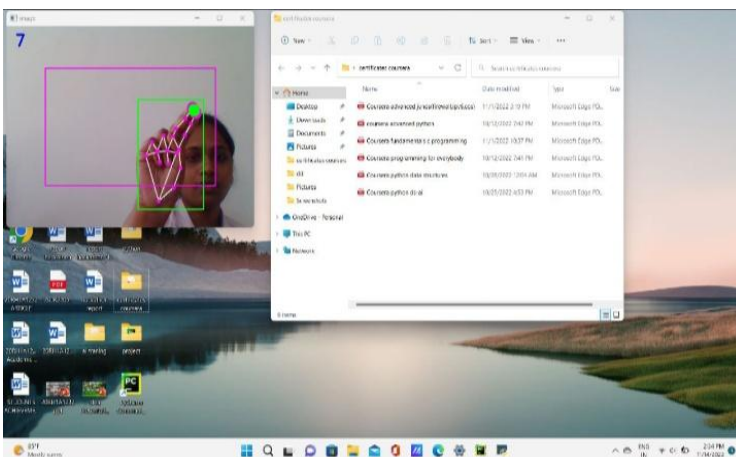


Intruder detection in a protected zone can be performed by the physical protection which acts within the object's perimeter and survey's it but intruder detection can be also done using active protection elements. Active protection elements include alarm systems. These can be subdivided based on the area in which these elements detect the intruder into following categories: ones which detect the intruder at a

certain point of a certain level, where the intruder must cross a boundary between zones on his way through the detection zone and in area when crossing the detection zone. The development of camera systems allowed for introduction of additional functions, such as automatic intruder detection within the protected zone. Using a single protective element it is theoretically possible to perform various functions – motion detection, survey and check and analysis of events. In electronic security systems, an alarm has to be verified using at least two detectors, a camera system or physical protection.

CH. VARSHA(20RH1A1240), B.NEELIMA(20RH1A1218),G.NIKITHA(20RH1A1251)

## VIRTUALIZATION OF COMPUTER PERIPHERALS

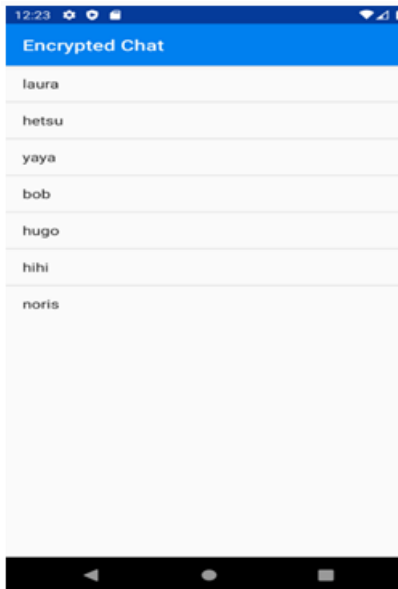


Nowadays, Computing is not limited to desktops and laptops it has found its way into mobile devices. But what has not changed for the past years is the input device. Virtual keyboard, mouse, drawing uses computer vision and AI (Artificial Intelligence) to let user's work. With the help of camera virtual keyboard will be created on screen and the typing will be captured on camera. Virtual mouse will take finger co-ordinates as input and tracks the finger for movement of cursor.

In virtual drawing pen color will be captured on camera and it draws the captured color. For keyboard we map touch point to keystrokes and recognize the character. For mouse tracking and finger detection we are tracking and counting number of fingers. It implements majority of mouse tasks such as left click, right click, double click and scrolling. However it is difficult to get stable results because of variety of lighting and skin colors of human races.

B. SAI SRUTHI(20RH1A1232), A.MANISHA KUMARI(20RH1A1201), B.VAISHNAVI(21RH5A1202)

## DESIGN OF SECURE CHAT APPLICATION WITH END-TO-END ENCRYPTION



End-to-end encrypted messaging means that the users within that specific chat can only read messages sent between two people. To enable this, the messages that are encrypted before leaving abuser's device, and only be decrypted by the intended recipient (end-user). To domain Encrypted Messaging App for Android, we will combine both Back4App Stream and Virgil Security platforms. Stream and Virgil make it easy to build a solution with excellent security by combining all of the features you would expect as a developer when creating messaging app These two services allow developers to integrate chat that is zero knowledge to your backend or Stream. The example app embeds Virgil Security's e Three Kit - a secure encrypted messaging platform-with Back4App Stream's Android components with Virgil's Android SDK; we can build a Back4App Stream app that uses Virgil's encryption/decryption platform to prevent anyone except the intended parties from reading messages.

A.JOSHNA(20RH1A1212), B. POOJITHA(20RH1A1219), CH. CHANDANA PRIYA(21RH5A1204)

## E-BANKING

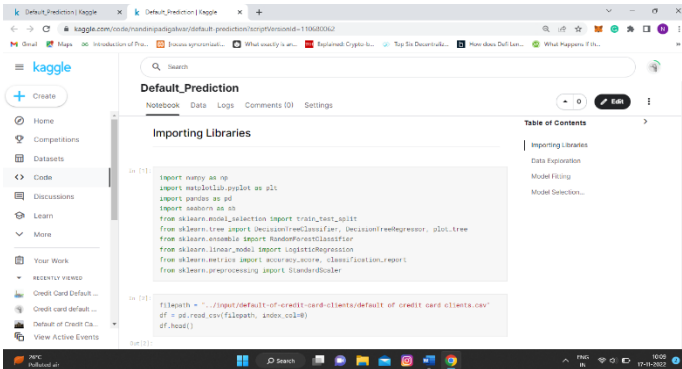


Today most of the banking happens while you are sipping coffee or taking an important call. ATMs are at your doorstep. Banking services are accessible 24x7. There are more plastic cards in your wallet than currency notes. A huge part of this change is due to advent of IT. Banks today operate in a highly globalized, liberalized, privatized and a competitive environment. In order to survive in this environment banks have to use IT. Indian banking industry has witnessed a tremendous

developments due to sweeping changes that are taking place in the information technology. Electronic banking has emerged from such an innovative development. The objective of the present paper is to study and analyze the progress made by Indian banking industry in adoption of technology. The study is secondary based and analytical in nature.

A.AKSHAYA(20RH1A1202), B.SRUTHI(20RH1A1217), B.LAVANYA(20RH1A1228)

## CREDIT CARD DEFAULT RISK ANALYSIS



```

import numpy as np
import matplotlib.pyplot as plt
import pandas as pd
import seaborn as sns
from sklearn.model_selection import train_test_split
from sklearn.linear_model import LogisticRegression, LogisticRegressionCV
from sklearn.ensemble import RandomForestClassifier
from sklearn.metrics import accuracy_score, classification_report
from sklearn.preprocessing import StandardScaler

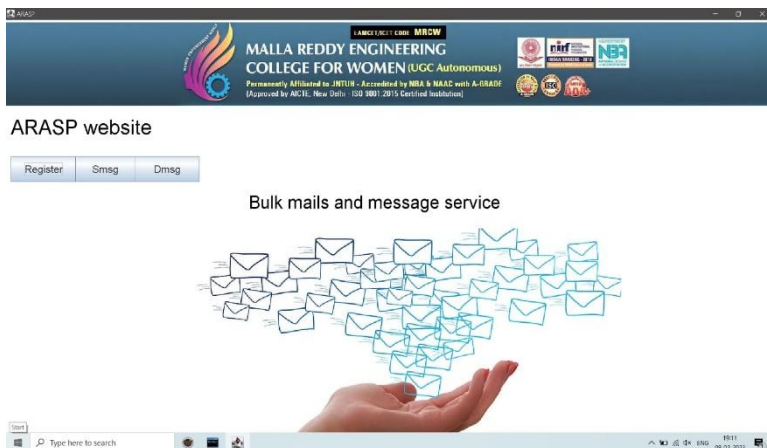
```

Defaulting of credit card loans is an area of great concern amongst banks and financial institutions. This is because loan portfolio is considered an asset to the institution and one which directly impacts the firm's profitability, hence effective measures need to be put in place to ensure that default risk is at manageable levels. Credit card accounts are normally classified as "good" or "bad" depending on whether the

cardholders are able to repay their debts within the agreed time or not. Good accounts continually settle their debts as per the agreement with the bank and consequently receive a higher credit limit over time allowing them have more credit at their disposal while bad accounts default their payments and end up with blocked credit cards or have more punitive measures taken on them. The latter bring losses to the banks.

G. SWEJA(20RH1A1259), G.LEHA(20RH1A1254), G.SWETHA(20RH1A1260)

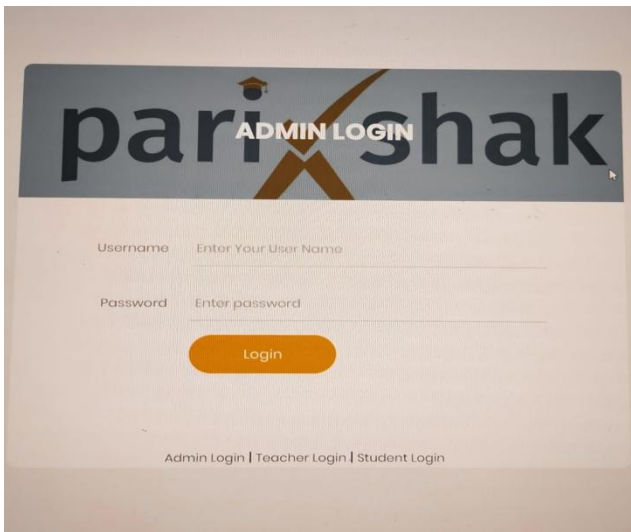
## BULK EMAIL SERVICES



This project is very useful for the study of java and interaction between Email and Computer program. This project report consists of basic idea of BULK mail receiving and sending through personal computer. This project basically support to busy people who want to save the time. We have provide easy interaction for user for adding new contact name & contact number. And also we can store information of that person. We have provide MySQL database for store information of the person. There are two types of BULK mail services Le Promotional and Transactional. We are mainly emphasis on promotional mails. It is technology that enables the sending and receiving of mails between mobile phones. Electronic mail (e-mail) is a computer-based application for the exchange of messages between users. Bulk mail system has expanded that capability of mails by implementing the ability to easily send multiple mails messages to intended recipients with reliability. The advantages of bulk mails can be applied in schools and universities to further develop classroom interactions and set up a virtual community as a public relations system.

K.SPANDANA (20RH1A1296), G.ARCHANA(20RH1A1262), K.RASMIKA(20RH1A1276)

## ONLINE EXAMINATION

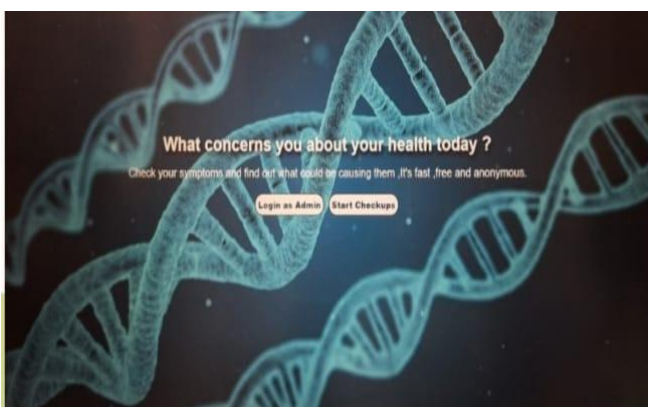


Online examination system is a web-based examination system where examinations are given online. either through the internet or intranet using computer system. The main goal of this online examination system is to effectively evaluate the student thoroughly through a totally automated system that not only reduce the required time but also obtain fast and accurate results. Internet is the means for people to communicate, fulfill their needs and exchanging their ideas. Now a days internet is means to fulfill your desire at mouse click and roam around the world sitting in front of your computer. Applications on internet is playing vital role now a days.

The main screen appears which consist information about how to follow through the application. Once the client selects his option from the homepage, he will be forwarded into the details. If the user wants to know about the history of institution he can click on ABOUT-US and the details of the courses available in this institution can click on COURSE DETAILS. If the user is the new person he register his User-id by using student registration form.

K.VAHINI (20RH1A1272), K.HARIKA REDDY(20RH1A1287), N.VYSHNAVI (21RH5A1212)

## SMART HEALTH PREDICTION

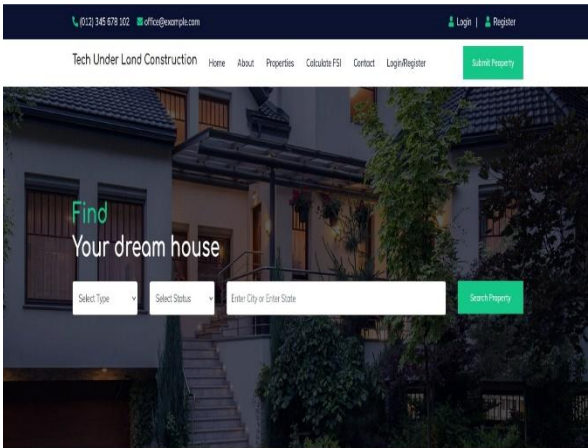


“Health Prediction Management” is a project which is developed to provide an easy and simple way to both users and doctors communicate with each other directly. In this application, users can search the symptoms of the diseases to the doctor from anywhere and at any time. It might have happened so many times that you or someone yours need doctors help immediately, but they are not available due to some reason. The Health Prediction system is an end user support and online consultation project.

Here we propose a system that allows users to get instant guidance on their health issues through an intelligent health care system online. The system is fed with various symptoms and the disease/illness associated with those systems. The system allows user to share their symptoms and issues.

LAVANYA(20RH1A1268), K.SATHWIK(A20RH1A1290), M.LIKHITHA(20RH1A12B2)

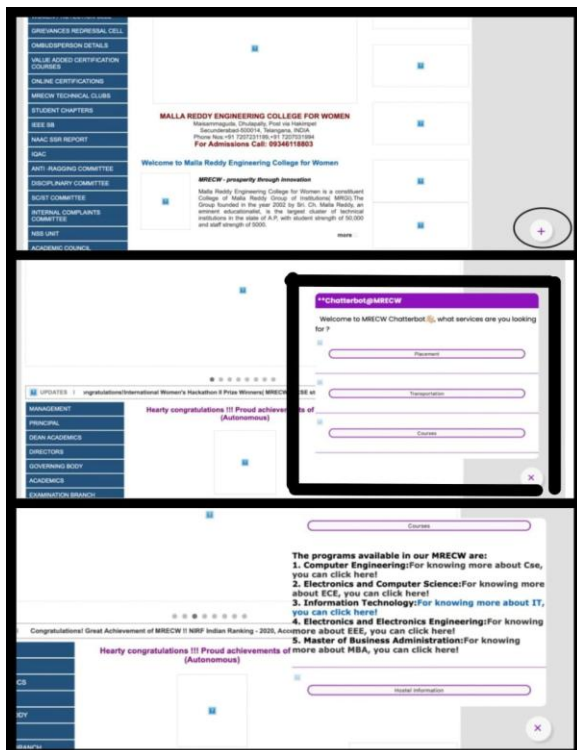
TECHNOLOGY UNDER CONSTRUCTION



We would mainly like to focus on the structure, methodologies and the project details of our innovative project. The feature that we added to this project make it different from the projects that are already in the market. Through this web application we can easily know how many floors can be constructed in a particular area. Through this we can avoid many illegal constructions that take place in various cities/towns. Our main moto is towards a safe and good construction.

G.SANJANA(20RH1A1261 ), J.NIKHILA(20RH1A1269), N.DEEKSHITHA(20RH1A12B9)

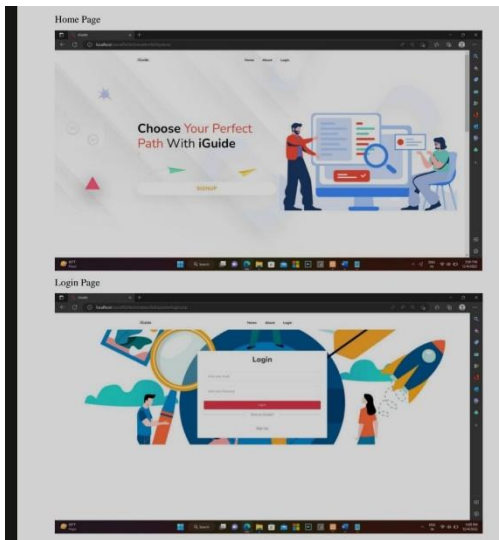
MENU BASED CHATBOT FOR EASY ACCESS OF THE CONTENTS FROM A WEB PAGE



The use of chat bots evolved rapidly in numerous fields in recent years, including Marketing, Supporting Systems, Education, Health Care, Cultural Heritage, and Entertainment. In this paper, we first present a historical overview of the evolution of the international community's interest in chat bots. Next, we discuss the motivations that drive the use of chat bots, and we clarify chat bots' usefulness in a variety of areas. Moreover, we highlight the impact of social stereotypes on chat bots design. After clarifying necessary technological concepts, we move on to a chat bots classification based on various criteria, such as the area of knowledge they refer to, the need they serve and others. Furthermore, we present the general architecture of modern chat bots while also mentioning the main platforms for their creation. Our engagement with the subject so far, reassures us of the prospects of chat bots and encourages us to study them in greater extent and depth.

M.YESHASWINI(20RH1A12B5), MP.JAHNAVI(20RH1A12B4), N.SOWJANYA(20RH1A12C0)

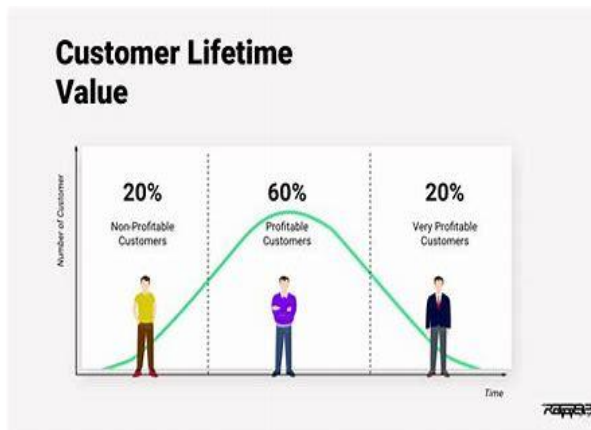
## SMART INFORMATION SYSTEM (IGUIDE)



iGuide supports the process of the intake and registration of information on people and enable information processing to assess their needs and conditions. iGuide automate information processing for eligibility and enrollment decisions, decisions on the benefits and service package, the provision of benefits and services, monitoring and management of beneficiaries (including basic beneficiary management, compliance monitoring, grievance redress, and decisions on exit). Data from iGuide may be integrated in a data warehouse to form an Integrated Data Platform. iGuide is a software which is a support system for every individual who are looking forward for their career. iGuide acts as a personal guide.

T. KAVYA(20RH1A12G4), T.SAMYUKTHA(20RH1A12G5), U.KRISHNAVENI(20RH1A12G9)

## CUSTOMER LIFE TIME PREDICTION



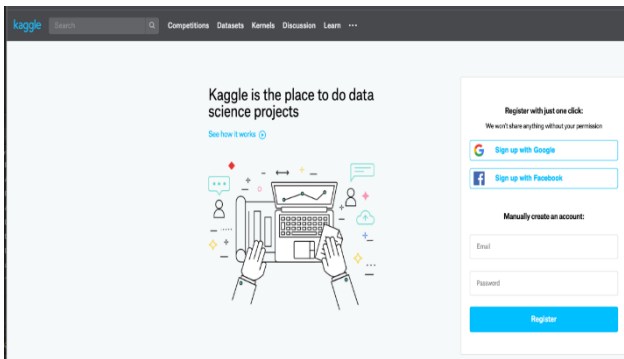
CLV is an important metric to track for two reasons. First, the totality of a company's CLV over its entire customer base gives a rough idea of its market value. Thus, a company with a high total CLV will appear attractive to investors. Second, a CLV analysis can guide the formulation of customer acquisition and retention strategies. For example, special attention could be given to high-value customers to ensure that they stay loyal to the company. Customer We describe the Customer Life Time Value (CLTV) prediction system deployed at ASOS.com, a global online fashion retailer. CLTV

prediction is an important problem in e-commerce where an accurate estimate of future value allows retailers to effectively allocate marketing spend, identify and nurture high value customers and mitigate exposure to losses. The system at ASOS provides daily estimates of the future value of every customer and is one of the cornerstones of the personalised shopping experience.

NEESHO ROY(20RH1A12C7), P.TANISHA(20RH1A12D8), P.VARSHINI(21RH5A1215)



## Credit Card Default Risk Analysis

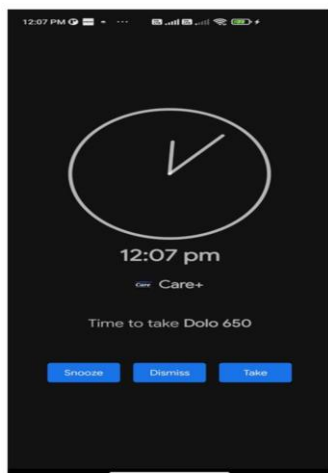


Defaulting of credit card loans is an area of great concern amongst banks and financial institutions. This is because loan portfolio is considered an asset to the institution and one which directly impacts the firm's profitability, hence effective measures need to be put in place to ensure that default risk is at manageable levels. Credit card accounts are normally classified as "good" or "bad" depending on whether the cardholders are able to repay their debts within

the agreed time or not. Good accounts continually settle their debts as per the agreement with the bank and consequently receive a higher credit limit over time allowing them have more credit at their disposal while bad accounts default their payments and end up with blocked credit cards or have more punitive measures taken on them. The latter bring losses to the banks.

P.NANDINI(20RH1A12D2), SANKURI.NAGA LIKHITHA(20RH1A12F3)

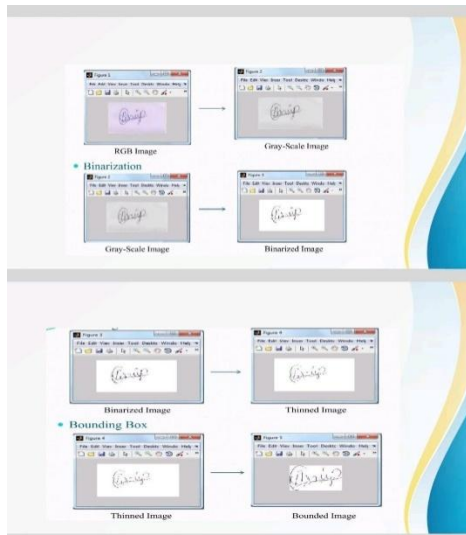
## Medicine Remainder Mobile Application



This is an Android-based application in which an automatic alarm ringing system is implemented. It focuses on doctor and patient interaction. Patients need not remember their medicine dosage timings as they can set an alarm on their dosage timings. The alarm can be set for multiple medicines and timings including date, time and medicine description. A notification will be sent to them through email or message inside the system preferably chosen by the patients. They can search doctor disease wise. The patients will get the contact details of doctors as per their availability. Also the users can see different articles related to medical fields and health care tips. The system focuses on easy navigation and good user interface.

V.DEEKSHITHA(21RH5A1217), T.SHIVANI(20RH1A12G2), SHREYA REDDY PATIL(20RH1A12F8)

## SIGNATURE RECOGNITION MACHINE LEARNING AND PYTHON



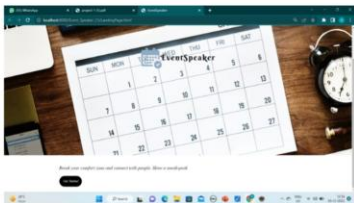
To avoid forgery and ensure the confidentiality of Information in the field of Information Technology Security an inseparable part of it. In order to deal with security, Authentication plays an important role. A person's signature is a representative of his identity. For us at the Bank, a signed document by a customer is an instruction from him for carrying out an approved transaction for him. To avoid forgery and ensure the confidentiality of Information in the field of Information Technology Security an inseparable part of it. In order to deal with security, Authentication plays an important role.

This Project is basically, a type of Machine Learning algorithm which you will put on images of signature that banks have of their customers and this algorithm will

compare it with forged signatures and tell whether the signature submitted while making a cheque payment, DD payment is true or not. The plan of action of this project was to develop a sophisticated algorithm and code using the different identified liberties and tools with the methods mentioned in this report and to design a GUI using Java Swings and implement the project.

N.SANKEERTHANA(20RH1A12C8), N.NIKHITHA(20RH1A12C1), N.HARSHITHA(20RH1A12C2)

## EVENT SPEAKER



## EVENTS PAGE



Events are becoming part in providing entertainment and making the students more interactive. Technology is ruling the world and it is offering many things in saving time and life. There are many applications to provide individual needs like for connecting people, we have whatsapp, facebook, etc., Colleges and universities have their own events where they allow people from outside of their university or college. To know about the events which are happening within a college or university, an application is needed. This application has to provide a way for a student to register in the events happening in the colleges. Event organizers or a registered user need to post the events along with the poster of an event and by providing details of event. A participant should be able to register for an event. Participant should be able to invite his/her friends by choosing an option to invite.

Y.CHAITHANYA(20RH1A12H9), SHREYA SAMALA(20RH1A12F1), R.RUCHITHA(20RH1A12F0)

## CHEMSTORY



Chemstory is an education based game that allows the users aged around 8 –15 years old and for anyone looking for a fun chemistry learning experience. Chemstory is a game that includes the periodic table chemical elements as friendly characters that help the player explore the world of chemistry using story building as a tool. The player is taken on an immersive journey through a newly discovered world where they can interact with the chemical elements and treat them as friends. The player can also indulge in the mystery of what happens during chemical

reactions, played out in the form of our characters meeting each other. This allows the player to retain information about chemistry and chemical reactions along with reading it in a textbook. Animation and visual cues have scientifically been proven to be one of the strongest way to retain information and to generate a further curiosity in young minds and Chemstory further helps elevate the learning experience through this concept.

LIPICHILUKA(21RH1A1252)

## THAT ONE PET APP



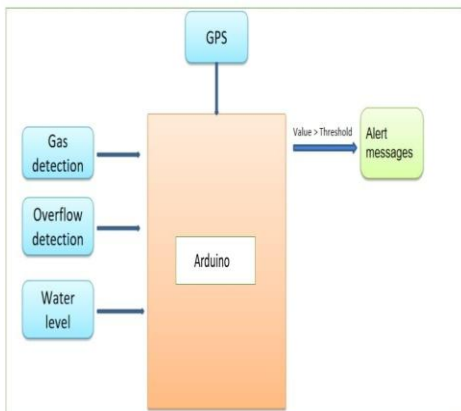
That one pet app, or TOPA, is a medical and social media platform for pet owners who want to feel more secure in this new responsibility. TOPA allows the user to interact with other pet owners, which is very essential for new pet owners, as well as, it provides a variety of digital medical facilities such as, essential first aid procedures, emergency hospital numbers, locations of nearby veterinary hospital, tips and advices on how to take care of your new family member according to their breed. According to our research, there are little to almost no resources that specifically cater towards the medical and social needs of pets. It is also very useful for new pet owners who do not feel secure enough about their abilities to

provide for their pet ; our social media platform is to cater towards this problem. Pets have become more frequent in homes with over 6 in 10 Indians adopting a pet. In order to assure a safe home and upbringing for them, TOPA helps the owner help the pet. TOPA is very resourceful and might even prevent any harm coming towards our pets. After all, in the case of a new addition to the family, more is never too much.

P. CARIS(21RH1A1239)

## DRAINAGE OVERFLOW MONITORING SYSTEM

### SYSTEM ARCHITECTURE

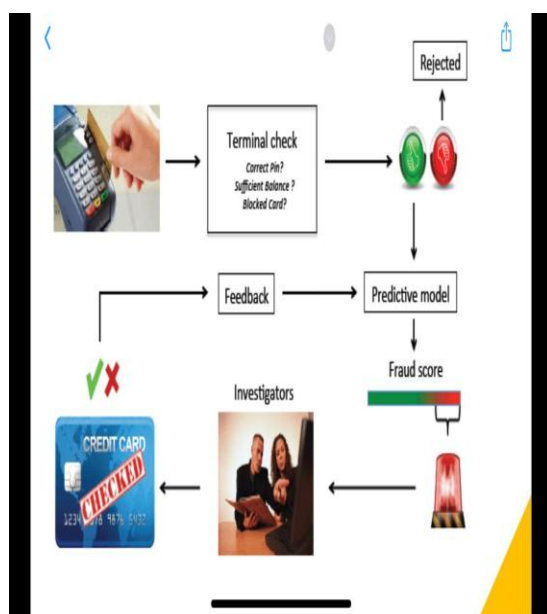


In the present-day scenario, where the concept of a smart city is implemented with parameters such as smart traffic analysis, smart farming, smart emergency services, etc. A smart drainage automation system should also be part of a smart city as the Drainage system is one of the essentials of society. In India the sewage system is one of the major issues, due to the poor maintenance of the sewage system the sewage water is overflowed on the streets and sometimes mixes in the drinking water which damages the health conditions of the people, to overcome this issue we are proposing the model called Drainage Overflow Monitoring System (DOMS).

The Aim is to come up with a solution using modern technologies of IOT to get a detailed exploration of the data collected through various IOT sensors.

T. GEETANJALI(21RH1A12H9)

## Credit Card Fraud Detection



Credit card generally refers to a card that is assigned to the customer (cardholder), usually allowing them to purchase goods and services within credit limit or withdraw cash in advance. Credit card provides the cardholder an advantage of the time, i.e., it provides time for their customers to repay later in a prescribed time, by carrying it to the next billing cycle. Credit card frauds are easy targets. Without any risks, a significant amount can be withdrawn without the owner's knowledge, in a short period. Fraudsters always try to make every fraudulent transaction legitimate, which makes fraud detection very challenging and difficult task to detect. In 2017, there were 1,579 data breaches and nearly 179 million records among which Credit card frauds were the most common form with 133,015 reports, then employment or tax-related frauds with 82,051 reports, phone frauds with 55,045 reports followed by bank frauds with 50,517 reports from the statistics released by FTC.

RIDHI ARDESHNA(21RH1A12G2)

## SUPER HUMAN

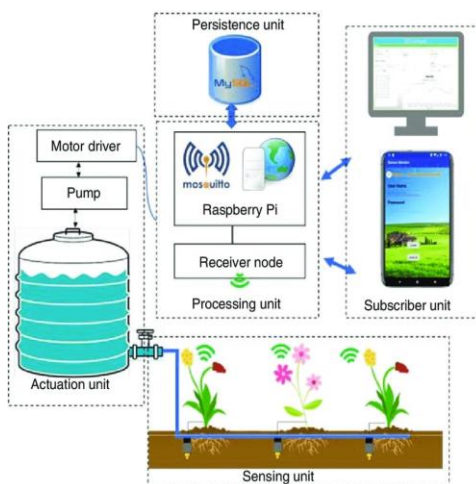


As the days are passing by, we come across new and latest inventions which use Artificial Intelligence to ease our usage of the devices. But Neurological Science has also excelled beyond its limits though we are unable to treat some disabilities like Alzheimer's, seizures etc. The goal is to eventually begin implanting devices in paralyzed humans, allowing them to control phones or computers.

It is the future of technology as a humans can possibly use it to operate machines with their brains. It is a chip set called the link is implanted in the skull. This means that people with paralysis can easily operate their phones and computer directly with their brain. Its main purpose is to help people to communicate through text or voice messages.

G.SHARANYA(21RH1A1274)

## SMART IRRIGATION



The raising population ,the agricultural production is needed. The irrigated agriculture has been an extremely important source which increases the production and its value. Now a days people wants to look their work from anywhere in manner of digital devices such as smart phone and tablet and laptop.

This presentation on "IOT base smart irrigation system" is for to create an IOT based irrigation mechanism which makes the pumping motor ON and OFF on detecting the available moisture content and sufficient water level.

Here we use hardware and software components for all this process.

SMART IRRIGATION is mainly used to save wastage of water in agricultural field.

watering plant has become burden in today modern world .Through these system we can supply waterto crops and we are using sensor technology

G.UMARANI(21RH1A1270)

MEMORABLE EVENTS

**ONE WEEK FACULTY DEVELOPMENT PROGRAMME ON  
AI & ML AND ITS APPLICATIONS  
during 6<sup>th</sup> to 10<sup>th</sup> Feb, 2023**



## EFFECTIVE TEACHING STRATEGIES & METHODS



**ACCREDITED BY NBA - 3<sup>rd</sup> TERM**

DEPARTMENTS OF  
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### E-SUMMIT 2K23



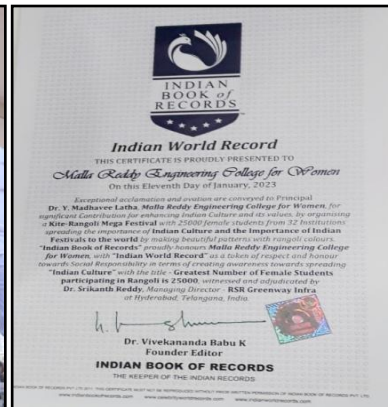
### EXPERT LECTURE ON RESEARCH OPPORTUNITIES IN THE TRANSFORMATION TOWARDS DIGITAL ECO SYSTEMS by **Dr.L. Pratap Reddy**, Professor(ECE), JNTUH





**INDIAN WORLD RECORD**

Exceptional acclamation and ovation are conveyed to Principal Dr. Y. Madhatee Latha, Malla Reddy Engineering College for Women for significant contribution for enhancing Indian Culture and its values, by organising a Kite-Rangoli Mega Festival with 25000 female students from 32 Institutions spreading the Importance of Indian Culture and Indian Festivals to the World.



**THE ANNUAL RECOGNITION OF 'TOP WOMEN'S COLLEGE IN INDIA - 2022 BY WOMEN ENTREPRENEUR INDIA MAGAZINE**



### INAUGURATION OF G-CELL



### CAMBRIDGE ENGLISH EMPOWER C1 LEVEL GRADUATION CEREMONY



### TECH TALK BY HITACHI



### ALUMNI MEET – 2K23



### NATIONAL LEVEL HACKATHON – 2K23



### VILLAGE SURVEY UNDER NSS UNIT I & II



### MUSICAL SHOW BY

Arun Kaudinya – Sathyabhama Swathi

Saketh & Team



### INNOVATIVE PROJECT EXPO



## SANKRANTHI CELEBRATIONS



## GUEST LECTURE ON WOMEN ENTREPRENEURSHIP



## TECH TROPHY – 2K23



## ALUMNI TALK

**Miss. Rachana. V**

Software Developer

IBM

2019 Passed out

**My happy place Malla Reddy Engineering College for Women.**

**Placements:** Around 100% placements from our batch. The highest package is 24 LPA and the lowest package is 3.5 LPA. Accenture, Amazon, IBM, Capgemini, Xoriant, and Delloite are the recruiting companies. The percentage of students who got internships is 75% because some companies offer internships and some will take them directly.

**Infrastructure:** We have classrooms, labs, and a library up to 6 pm. The food available in the canteen and hostel is very hygienic. They will not allow any type of other junk foods into the hostel. In the hostel, we have Wi-Fi for 24 hrs for better study. The hostel provides yoga, self-defense, Zumba, etc.

**Faculty:** Semester exams are not either tough or easy. The faculty will make our company ready. Our faculty are very helpful they will teach us in the classroom and clarifies our doubt whenever needed. Our top sir and his team are very cooperative they will answer us whenever we ask

## IMPORTANT WEBSITES

[www.ieee.org/india](http://www.ieee.org/india)

[www.engineering.careers360](http://www.engineering.careers360)

[www.technologyreview.com](http://www.technologyreview.com)

[www.mathworks.in/products/matlab/](http://www.mathworks.in/products/matlab/)

[www.microwaves101.com/](http://www.microwaves101.com/)

[www.ece.utoronto.ca/student-life-](http://www.ece.utoronto.ca/student-life-links)

[links\\_https://www.ece.org/](https://www.ece.org/)

[Science Commons.org](http://ScienceCommons.org)

[MathGV.com:](http://MathGV.com)

<http://www.engineeringchallenges.org/>

<http://engineering.stanford.edu/announcement/stanford-announces-16-online-courses-fall-quart>

<http://www.tryengineering.org/>

<http://www.engineergirl.org/>

<http://www.discoverengineering.org/>

<http://www.eng-tips.com/>

<http://efymag.com>

<http://efymagonline.com/>

<http://electronicsforu.com>

[www.dspguide.com](http://www.dspguide.com)

[www.howstuffworks.com](http://www.howstuffworks.com)

<http://nptel.iitm.ac.in>

<http://www.opencircuitdesign.com/>

<http://www.futuresinengineering.com>

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# INSPERON



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