



Dr. J. J. Magdum Trust's

Dr. J. J. Magdum College of Engineering, Jaysingpur

Sr No.	Name of Student	Winner/Runner up	Event
1	Aishwarya Raje & Nikita Mane	Runner Up	HORIZON 2K22
2	Tanjila Shaikh & Pallavi Hajare	Runner Up	HORIZON 2K22
3	Sahil Sutar & Pranav Garud	Winner	Techno Bharati 2K22
4	Aryan Shinde	Winner	Techno Bharati 2K22
5	Aryan Shinde	3rd Place	Techno Bharati 2K22
6	Aryan Shinde & Sudarshan Patil	3rd Place	CRACKERS 2K23
7	Snehal Shivshant Patil(L)	Winner	"Spectrum 2K23" Under Lead College SUK
	Vivek Sanjaykumar Admuthe		
	Rushikesh Krishna Patil		
	Nischay Pradip Bhokare		
8	Snehal Shivshant Patil(L)	Winner	"ASHWAMEDH 2K23" UG Conference Civil Group. A National Level Event
	Vivek Sanjaykumar Admuthe		
	Rushikesh Krishna Patil		
	Nischay Pradip Bhokare		
9	Aakanksha Kumbhar(L)	Winner	"ASHWAMEDH 2K23" UG Conference CSE Group. A National Level Event
	Siddhi Shrirang Kundale		
	Rutuja Vijay patil		
	Tanuja Shivaji Sawant		
10	Snehal Shivshant Patil(L)	3rd Place	"ASHWAMEDH 2K23" UG Conference CSE Group. A National Level Event
	Vivek Sanjaykumar Admuthe		
	Rushikesh Krishna Patil		
	Nischay Pradip Bhokare		
11	Purnima Adgane	Qualify	IELTS
12	pratiksha Gavali(L)	International Journal Publication	IJRCCE, VOL 11, Issue 4
	Neha Chavan		
	Hasnain Lakhani		
	Bishal Malakar		
13	Jivan Ananda Patil(L)	International Journal Publication	IJRCCE, VOL 11, Issue 4
	Tejas Adhik Shinde		
	Pratik Parashram Jadhav		
	Shreyas Sunil Kamble		
14	Snehal Shivshant Patil(L)	International Journal Publication	IJEAST, Vol 7 Issue 11 ISSN: 2455-2143
	Vivek Sanjaykumar Admuthe		
	Rushikesh Krishna Patil		
	Nischay Pradip Bhokare		
15	Vinayak Rajendra Sutar(L)	International Journal Publication	IJRCCE, VOL 11, Issue 5
	Ajit mali		
	Mayuresh Mahesh Pujari		
	Sandesh Rajgonda Patil		
	MORE PRAJAKTA CHANDRAKANT		

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16	Sanmay Anil Majlekar(L)	International Journal Publication	IJIRCCE, VOL 11, Issue 4
	Prem Subhash Hogade		
	Sourabh Shivkumar Kesharwani		
	Vishwjeet Vijay Powar		
17	Saurabh Shivaji Daware(L)	International Journal Publication	NCETET-2023, ISBN:978-93-91535-44-5
	Priyanka Mahadev Bamnale		
	Aishwarya Ashok Patil		
	Ruchita Uddhav Bhosale		
	AVADOBA SHAILESH KESHAV		
18	Mahesh Siddhu Dhangar(L)	International Journal Publication	IJARCCE, Vol 12, Issue 4
	Aniket Govind Todkar		
	Pratik Rajendra Jatrare		
	Sourabh Bapuso Kole		
	BHANDARE ABHISHEK SANJAY		
19	Shraddha Rajendra Kore(L)	International Journal Publication	IJIRCCE, VOL 11, Issue 3
	Sonika Hanmantrao Mahind		
	Takshak Vikram Desai		
	Komal Dewadas Dhok		
20	Aakanksha Kumbhar(L)	International Journal Publication	IJIRCCE, VOL 11, Issue 4
	Siddhi Shrirang Kundale		
	Rutuja Vijay patil		
	Tanuja Shivaji Sawant		
21	Manali Balasaheb Narute(L)	International Journal Publication	IJIRCCE, VOL 11, Issue 3
	Sakshi Anil Patil		
	Karan Pandurang Kumbhar		
	Rija Kudartali Bagwan		
22	Harshwardhan Shinde(L)	International Journal Publication	IJIRCCE, VOL 11, Issue 3
	Siddharth Ashok Khubikar		
	Abhishek Deelip Unde		
	Shreyas Haridas Shirke		
23	priyanka uttam yedage(L)	International Journal Publication	IJRASET, Vol 11 Issue 3
	uttara uday repe		
	rutuja uttam patil		
	UTTURE OMKAR ANIL		
24	Harshal Rajgonda Chandoba	International Journal Publication	IJIRCCE, VOL 11, Issue 4
	Radhika Raosaheb Bhosale		
	Nutan Rajendra Sawant		
	Aditi Suresh Patil		
25	Nihal Jamil Shaikh(L)	International Journal Publication	IJIRCCE, VOL 11, Issue 5
	Harshvardhan Rajendra Patil		
	Prathamesh Vishnu Rokade		
	Pramod Vijay Powar		
26	Prajakta Shashikant Patil(L)	International Journal Publication	IJIRCCE, VOL 11, Issue 3
	Amruta Shinde		

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	Purva Takale		
	Sanket Patil		
27	Pournima Adgane(L) Isha Patil Sakshi Jagdale Kiran Narute	International Journal Publication	IJIRCCE, VOL 11, Issue 4
28	Snehal Bhanase(L) Kshitija Chavan Pranav Gidde Siddhesh Godhade	International Journal Publication	IJSEDR, ISSN:2455-2631, vol 8 Issue 5
29	Sadiya Ramjan Nadaf(L) Rutuja Tanaji Kamble Dhanashri Nilkanthrao Ghatage Pratiksha Rajendra Jangam	International Journal Publication	IJSEDR, ISSN:2455-2631, vol 8 Issue 4
30	Kedar Indrajeet Sutar(L) Roshankumar Nayaku Lavate sankita katekar Joya shaikh	International Journal Publication	IJIRCCE, VOL 11, Issue 4
31	Samruddhi Dixit(L) Krant Wani Anjali Mali Sonali Mohite	International Journal Publication	IJRAR, Vol 10, Issue 2
32	Sanmay Anil Majlekar(L) Prem Subhash Hogade Sourabh Shivkumar Kesharwani Vishwjeet Vijay Powar	International Journal Publication	NCETET-2023, ISBN:978- 93-91535-44-5
33	Snehal Shivshant Patil(L) Aishwarya Ashok Patil Ruchita Uddhav Bhosale AVADOBA SHAILESH KESHAV	International Journal Publication	IJEAST, Vol 6 Issue 9 ISSN: 2455-2143

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This certificate is awarded to Mr/Ms Aishwarya Rajje
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Poster Presentation in 'Horizon 2K22' held on 23rd November 2022.

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Prof. M. M. Kolap
(HOD E&TC)

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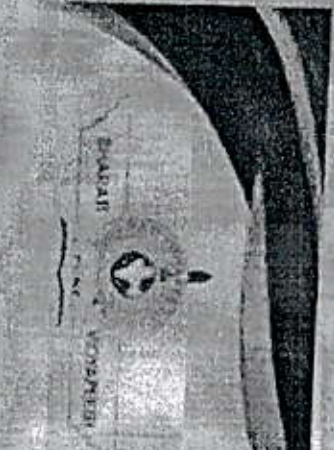


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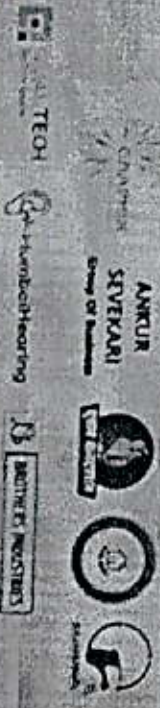
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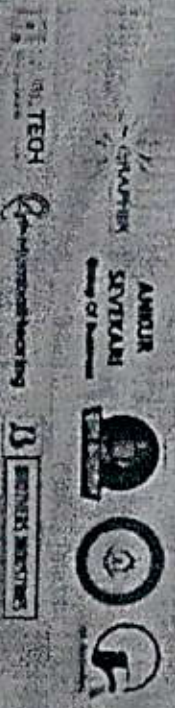
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Coding Club Coordinator

Prof. Mrs. A. G. Chendke
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Prof. Mr. R. A. Bharatiya
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Bharatiya

Patil

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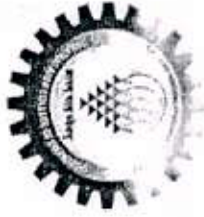
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स्मृति मंडळ (१९६३)

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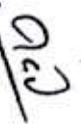
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under "ASHWAMEDH 2K23" held at

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FACULTY CO-ORDINATOR

Dr. D. B. Desai
CONVENOR

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FACULTY CO-ORDINATOR

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Prof. N. C. Desai
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Dr. J. J. Magdum College of Engineering, Jaysingpur on 20th May 2023.


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Dr. J. J. Magdum College of Engineering, Jaysingpur on 20th May 2023.


Prof. N. C. Desai
FACULTY CO-ORDINATOR


Dr. D. B. Desai
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UG/PG Conference under "ASHWAMEDH 2K23" held at

Dr. J. J. Magdum College of Engineering, Jaysingpur on 20th May 2023.



Prof. N. C. Desai
FACULTY CO-ORDINATOR

Dr. D. B. Desai
CONVENOR

Dr. Mrs. S. B. Patil
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UG/PG Conference under "ASHWAMEDH 2K23" held at
Dr. J. J. Magdum College of Engineering, Jaysingpur on 20th May 2023.

Prof. N. C. Desai
FACULTY CO-ORDINATOR

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Location Based Advertisement Using Geofencing

Prof. Mrs. S. A. Narde, Jivan Ananda Patil, Tejas Adhik Shinde, Pratik Parashram Jadhav,

Shreyas Sunil Kamble

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ABSTRACT: A geo-fence is an virtual barrier that surrounds a physical region. A geo-fence can be created based on the user's requirements by taking various radius factors into account, or it can simply be a predefined set of boundaries. Geofencing is an innovative technology, an online marketplace for proactive contextual services that allows users to easily find interesting services, can easily subscribe to it and to allow providers offer their services for a variety of applications. Geo-fencing is use of geo-fence. The global positioning system (GPS) is a feature that is used to determine geographic borders. It has a vastly expanding range. Relatively very few applications deal with geo-notifications, which are meant to proactively inform mobile and stationary users of location-specific information. Geo-fencing is the name of the technology that underlies proactive location-based services. The main objective of this research was to understand how the use of spatial data can improve advertising performance for customers. Tracking systems and monitoring, based on global navigation services by satellite, and include geofencing function, could also contribute to the exact location of an institution or company and increase sales and business perspective efficiently. Instead of large billboards they can now advertise on smartphones which is economically and accurately tested.

KEYWORDS:- Geo-fencing, Location Based Services, Global Positioning System(GPS), Geo-notification.

1. INTRODUCTION

Geofencing hospitality is a prototypical geofence-enabled mobile application for the android mobile operating system. It consists of an exemplary user interface for activating respectively deactivating the geofencing service and a component that deals with positioning and communication. The core purpose is to demonstrate the feasibility of our approach in general.

Geofencing is a method of defining a virtual barrier on a real geographical location. Mobile marketing has been taken to the next level with geofence, which gives hosts the ability to advertise specifically to potential customers within certain geographic radius. Geofencing constructs a virtual boundary around a business location using a combination of technologies including GPS & RFID. Geofencing area can be as small as 50 meters and as large as an entire city. Geofencing technology defines a virtual boundary around a real-world geographical area and by doing so, a radius of interest is established that can trigger an action in a geo-enabled phone or other portable electronic device. Geofencing helps you in keeping control of your business by notifying you when a potential consumer is passing by your hotels, by a competitors, or entering into a predefined area.

Location tracking is the precursor to geofencing and everything that has anything to do with geo specific marketing. To get it working, you need to use a mapping product like Google map to map out the regions you want to geofence. This region can be in a circular shape in most cases. Once your desired region is mapped out for geofencing, you can then target your consumers via their mobile phones GPS. Then you can monitor your geofence through the day for potential prospects or customers who might be interested in your offer. It keeps to track them until that to go out Geo-fencing is a location-based service that allows marketers to send messages to smart phone users who enter a predefined geographical area. This helps them to target the foot traffic in the vicinity of a point-of-interest. Marketing messages can be personalized to each user segment and can be auto-triggered on entry/exit from a geo-fence. A geo-fence is a virtual perimeter for a real-world geographic area.

Our prototype is based upon the idea to transform each specification of geofence scenario into a complex event pattern which interns serves as the parameterization of the stream processing system. The problem to determine if



CONSTRUCTION SITE INSPECTION BY USING

DRONE OR UAV

Snehal Shivshant Patil, Vivek Sanjay Kumar Admuthé, Rushikesh Krushna Patil, Nishay Pradip Bhokare, Aditya Dadaso Desai, Sneha Rajkumar Chhachhale, Prof. Dr. D. A. Nikam, Prof. Dr. D. B. Desai
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Abstract-The objective of this paper is to perform the

innovative idea for the new structures of

Constructure Site inspection, in civil sector,

currently ongoing constructions sites are monitored

manually which time consuming and also need

human energy, time & cost, so to overcome this

problem we are trying to develop this system. Our

Construction Site Inspection by using Drone or UAV

is based on organized real-time data that is gathered

using a variety of cutting-edge instruments, such as

drone, sensors, camera, and site photos etc. here

advanced software is used to analyses the data,

enabling better operations, planning and adjusting.

Keywords— Construction Site, Inspection, Monitoring,

Drone.

I. INTRODUCTION

Construction site inspection drone or unmanned aerial vehicle (UAV) is based on organized real-time data that is collected using a variety of cutting-edge tools, including a drone, sensors (photo/video camera, imaging camera, and sensors, etc.) A weekly, biweekly, or advance information-preparation of the construction of work progress control over and compliance monitoring for workplace safety and security is necessary to obtain the high-resolution photos and videos. We are developed this system since the monitoring of active construction sites in the civil sector at the moment is labour-intensive, time-consuming, and expensive. Using drones for construction site inspection can provide several benefits compared to traditional methods. Drones can capture high-quality images and videos from various angles and heights, allowing for a more comprehensive view of the construction site. Drones can capture high-resolution images and videos of the construction site from various angles, which can be used to create 3D models and maps. These models and maps can be used to track the progress of the construction project and identify any delays or issues that may arise. Drones can capture information about the construction site quickly and efficiently, which can save time and reduce costs compared to traditional inspection methods. Additionally, drones can be used to identify potential issues early on, which can help to prevent costly delays and rework. Overall, the use of drones or

"An overview of using drones for construction site inspections" by J. Seo and M. Al-Husssein. This paper provides an overview of the benefits of using drones for construction site inspections, including increased efficiency, accuracy, and safety. "Drone-based monitoring and inspection of construction sites: A review" by H. Rahimi and H. Shahrokni. This review paper summarizes the recent advancements and challenges in the use of drones for construction site monitoring and inspection, including data processing and analysis techniques. Unmanned aerial vehicles for construction site monitoring and inspection: A review of applications and technologies" by A. Alharbi et al. This paper presents a comprehensive review of the different applications and technologies used in the field of drone-based construction site monitoring and inspection. "A review of unmanned aerial vehicle applications for construction site inspection" by S. Shakyia et al. This review paper discusses the various applications of drones in construction site inspection, including site mapping, progress monitoring, and safety inspection. "A case study of drone-based construction site inspection for quality control" by B. Yang et al. This paper presents a case study of the use of drones for quality control inspections on a construction site, demonstrating the benefits of using drones for identifying defects and reducing inspection time. "Application of drone-based inspection for construction safety management" by Y. J. Kim et al. This paper discusses the use of drones for construction site safety inspections, including identifying hazardous conditions and monitoring workers' compliance with safety regulations. "Integration of drone and BIM technologies for construction site inspection" by Y. Li et al. This paper proposes an integrated approach using drones and Building Information Modelling (BIM) technologies for construction site inspections, including automatic defect detection and documentation.

II. LITERATURE SURVEY

UAVs for construction site inspection provides a range of benefits and can help to improve safety, quality, and efficiency on construction project.

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Automatic Billing Trolley

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ABSTRACT: The advancement of technology has brought about many conveniences in our daily lives, including in the supermarket where customers often have to wait in long queues during peak hours, especially during discount offers or weekends. This has led to the need for a contactless system, which is not only more time-efficient but also beneficial for public health. To address this issue, a project has been developed to create a contactless shopping experience using a Raspberry Pi-based system. The system is equipped with load cells, sensors, and motors integrated into the shopping trolley, which also features a barcode scanner. Once the shopping is complete, the system generates a bill and sends it to a designated app. The user can then make payment using the app's wallet, and once payment is confirmed, the trolley door will unlock, and the user can collect their purchases. This innovative solution aims to improve the supermarket shopping experience by reducing wait times and minimizing contact between individuals, thus promoting public health and safety.

KEYWORDS: Smart shopping Trolley, Barcode Scanner, Raspberry Pi, LCD Display, Android Studio, Weight Sensor, Python.

I. INTRODUCTION

The electronic technology of today is mainly based on embedded systems, with the aim of making life easier for people. Shopping malls are a popular destination for people to purchase their daily necessities. However, the traditional shopping method of using a trolley and standing in long queues for billing is time-consuming, which is not ideal for the busy lifestyle of today's generation. Hence, it is necessary to develop a smart shopping trolley system that can provide real-time status updates of the trolley and its contents. The system can be monitored using sensors, such as weight sensors, that are capable of transmitting data via the Internet of Things (IoT) network. This makes the monitoring process more efficient, faster and decisions can be made in less time. The smart trolley also features a barcode scanner to eliminate the need for manual scanning of each item during billing, saving time for both customers and retailers. The system is reliable, user-friendly, and helps to avoid standing in long billing queues. The use of an LCD display makes it easier for users to view the values of present and maximum capacity. The paper's aim is to provide a smart shopping trolley system that is efficient and user-friendly, enhancing the overall shopping experience for customers.

II. RELATED WORK

In [1] authors: Result obtained from the above system: This is the database of the products in which the decoded value of the barcode is compared with the database. In the database, we have stored every detail of the product like barcode value, its name, weight of the product and also its price. Depending on that the details are displayed on the LCD. Developing a platform for checking the cross weight of products for security purposes at the exit of the mall. II. Applying the IOT concept to the billing counter so that the total amount of purchases made in the mall is sent to the head office for accounting.

In [2] authors: The modern age of technology where most of the customers have to wait at the supermarket for shopping as it is a very time consuming process. The barcode-based billing process makes waiting in long queues a hassle during discount offers or when supermarkets are crowded during weekends. In this context, an Internet of Things (IoT) based smart shopping cart is proposed which includes radio frequency identification (RFID) sensors, Arduino, micro-controller, Bluetooth module and mobile application. RFID sensors rely on wireless communication. One part is the RFID tag attached to each product and the other is the RFID reader that efficiently reads the product information. After this, information about each product is displayed in the mobile application. The customer easily manages the shopping list in the mobile application according to their preferences. The purchase information is then sent wirelessly to the server and billing is automatically generated. This pilot model is designed to eliminate time-consuming

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E-Prescription using Speech-Recognition

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ABSTRACT: In our nation, medical prescriptions are still manually penned. However, there are times when the pharmacist cannot read the handwriting, which can lead to serious issues like patients consuming the incorrect drugs or insufficient amounts of those drugs. According to World Health Organization (WHO) statistics, medical and prescription errors cause 2.6 million deaths annually. Many mistakes in healthcare are caused by caretakers giving patients the incorrect medication or dosage because of unclear handwriting, medication interactions, unclear drug names, etc. The continuation of the medication process can occasionally be miscommunicated if there is no prior medical history. Additionally, the patient must keep getting in touch with the doctor repeatedly if they neglect the name or dosage of their medication. Our voice-based "E-prescription" will be crucial in resolving these problems. We are converting the provided voice input to text format using Natural Language Processing (NLP). For English, Hindi, and Marathi, we use Android Intents

KEYWORDS: Speech Recognition, NLP, Android Development, Authenticated Prescriptions, Kotlin, Doctor Authentication, Firebase.

I. INTRODUCTION

E-prescribing, also known as electronic prescribing, is a digital process that allows doctors and other healthcare professionals to create prescriptions and send them to patients or pharmacists via an application rather than using the more conventional handwritten or faxed recommendations. The electronically generated prescription is fully automatic, easy to understand, precise, and error-free. The creation of the E-prescription app is a way to reduce the risks that rise with routinely prepared manual prescriptions. The goal of our project is to develop a simple interface for doctors that accepts voice notes as input and converts them into text to create paperless prescriptions that are accessible in English, Hindi, and Marathi.

The main issue in India is that the majority of prescriptions are still penned by hand. If a doctor has prescribed certain medications, such as "Valcyte" or "Valtrex" only pharmaceutical professionals, such as pharmacists, can interpret these medications. People without medical backgrounds are unable to properly read prescription medications and cannot confirm whether the medication given by the pharmacist is in accordance with the prescription or not. We have suggested our application, which enables patients to recognize the names of the drugs and the quantity of each, in order to prevent patients from misinterpreting the doctor's handwriting on the prescription.

We have also given dosages so that the patient understands how, when, and in what quantity the drugs should be taken. We have provided extra cloud storage for prescriptions in order to safeguard prescriptions and patient information.

The doctor can easily replace a prescription if a patient misplaces it. In addition, we have provided customizable watermarks so that the prescriptions can be readily identified. A digital signature from a doctor is also given for authentication. There are numerous applications accessible today, such as Blue doc, E-prescription, and others, that generate prescriptions only in English.

a. Problem Formulation

Formulation of Problem plays an important role in determining the purpose, requirement, and usage of the project that is made. So the problem statement of this project can be formulated as, Developing and android application which takes



Activity Recognition System for Smart Campus

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 Dr. J. J. Magdum College of Engineering, Jaysingpure

Abstract: Long video data resulted from the use of cameras lab activities as a action recording. We present a new framework for recognizing student activities from the class. In this system we improve intelligent mechanism, top low level motion detection algorithm and feature extraction. We recognize the frame difference and feature selection for human activities that permits recognition. The detection of human activity from videos is very complicated appropriate to the complex reality of events, the situation in which activities took place, the require of available size of abnormal ground truth training data and other factors correlated to environmental disparity, light conditions and the working position of the captured cameras. The objective of this paper is to research and inspect machine and deep learning techniques by using videos for recognition of students lab activities . The importance has been on a variety of activity detection systems with machine learning techniques as their prime move toward
Keywords: Activity, framework, motion detection, anomaly, machine learning, variation.

I. INTRODUCTION

Human Activity Recognition (HAR) system can even use the computer system to detect human activity or movements. The human activity recognition system has multitude of applications in atheletic competitions, medical treatments, smart home, transport services and elderly care . The system uses machine learning algorithm for classification task. Imagine the scenario where the robot actively detects all human activities, avoiding crowd disturbances and acrimony before getting worse. In the survey of different categories for activity detection and the features and techniques used for each category is provided. To study the view of many individual persons activity, the model requires not only explaining the individual act of every person in the framework but also signifying their collective behavior.

Many other earlier studies focus on single object actions or between pairs of objects, and for these methods it is important to successfully extract good characteristics. So we must focus on the actions of more than three people participating in this system, called group activities.

The main aim of the system is detecting the group activity through video based data and recognize the appropriate activity. The number of people is increasing in such group activites, and interactions between individuals are more complicated to find it harder to define group activity. This system used lab activities as shown in TABLE In that activity contains Empty class, Group discussion, Lecture is going on. This study proposes a video analysis computer code system to improve the detection and recognition of hard and time activities. Many of the papers contain the field of human activity recognition, crowded scene analysis and the behavioral comprehension, which are directly or indirectly correlated to video based activity detection. So the main objective of this paper is to study video based student activity recognition in college premises using machine learning and deep learning techniques. Table I. lab activities classes of activity recognition system.

Table I. classes of activity recognition system

Location	The types of activity
College lab	Empty class, Group Discussion, Lecture is going on

II. LITERATURE SURVEY

Human activity recognition done by using all the ways through the wearable devices which can be used for the different purposes like sports, fitness care and the event detection. The author Min et al. designed a two different models in which first one is used the data from acceleration sensors and the second one is used for the location information. But in this paper before using the method of feature extraction, the sensor data is firstly splits into the different time segments which are basically the sequential time segments. In which the sliding window technique is used for the purpose of change in streaming data.

Human activity recognition system used to classify persons daily activity using the sensors that are more expensive for the human movement. Erhan et al. has been proposed a different supervised machine learning algorithms like K-nearest neighbor (KNN), Support vector machine and the Decision tree and many of the methods such as Stacking, Bagging and the Boosting.

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Video Summarization of Surveillance Camera Using MobileNet SSD Object Detector

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ABSTRACT: The number of surveillance cameras used for security purposes in private and government property. Constant working surveillance cameras produce huge amounts of video data. These data are used as information not only by the owner but can be useful for criminal investigation points of view of police officers. So, it is necessary to process the captured video such that we can quickly overview the activities captured by the surveillance cameras' lengthily video. This paper proposes a powerful approach to multiple human action detection, recognition, and summarization of surveillance videos based on the MobileNet Deep Neural Network. The Proposed Mechanism will summarize only those frames which are detected that the object is moved, and dropping redundant frames. All Moveable objects present in the captured video were detected and saved by our program, these active frames are then enclosed in a single clip.

KEYWORDS: Video Summarization, Surveillance camera video summarization, Video Summary

I. INTRODUCTION

Security is become a primary concern in the recent days and surveillance plays a major role in security. Now a days the number of surveillance cameras installed on private & public properties increases rapidly. These surveillance cameras continuously capture videos 24 hours therefore produces considerable amount of data on daily basis. The storage, retrieval, management and analysis of the data became a demanding task. Processing videos requires considerable time, as to extract the relevant or most essential data the user has to watch the entire long videos. Moreover, a large part of these videos is non-essential and sometimes it is repetitive. Manually watching these long videos for hours can be wastage of much time and tiring. Besides, focusing on the same video or video screen for long hours sometimes became erroneous. The chances for a person to miss out any important event in the video are high.

Hence it requires to develop an efficient technique that helps in reducing the gap between lengthy video into short videos while still retaining important events. This can be also applied to any lengthy video where the entire content can be narrowed down to only those part with dynamic frames.

There are numerous techniques which provide video summarization. But most of these techniques used for videos such as sport, entertainment and many more. These techniques generally create a video summary that is highlights of sports videos and entertainment videos etc.

There are Multiple processing methods are present for reducing the storage of Surveillance video by containing only important frames here important frame means object movable frames. Surveillance video summarization is basically the short summary of long captured video. Video summarization of surveillance video should contain only important frames and drop the remaining frames .

This project approach for creating summarize video based on the object detection. After converting surveillance video into image frames this each frame comparing with adjacent frame and if there is difference in frame then it adds as an important frame. Remaining common frames drop from the video. Other important frames enclosed in single clip as output summarized video.

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Smart Electric Vehicle Charging Station

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ABSTRACT: Currently we are facing issues related to lack of fuel and hence we are facing the problem of rise in the price of fuel. So people are shifting to the Electric Vehicles. Because Electric Vehicles are more efficient, and that combined with the electricity cost means that charging an Electric Vehicle is cheaper than filling Petrol for your travel requirements. Using renewable energy sources can make the use of electric vehicles more eco-friendly. But people are facing problem because of lack of number of availability of charging stations. At the same time the requirement of public charging portals is not sufficient to meet the demand of the consumers even if there are few Electrical vehicles manufacturing companies are available, they are not providing that charging stations, and it is necessary to increase the number of charging stations.

Electric vehicles are a relatively recent technology that is seeking place in the market. It has several advantages, such as the reduced greenhouse emissions, fuel savings and easy to use. Transportation electrification is one of the essential components in the future smart planning and electric vehicles. Charging stations are the main source of energy for EVs and their locations are critical to the accessibility of EVs in a city. They should be carefully situated so that an EV can access a charging station within its driving range. The charging stations successfully developed as desired features for electric vehicle from renewable energy resources. This project is about charging E-vehicle module using Smart EV charging station and also there is a new term QR code, so user not need to carry all the time by just having mobile application user can do charging.

KEYWORDS:

1. Microcontroller

2. Charging Station

1. INTRODUCTION

Most aspects of our daily life continue to transform by the digital revolution. Recently the most popular form of green transportation is (EV) electrical vehicles. EVs have many advantages including that they are eco-friendlier, energy efficient, economical, and comfortable than conventional gasoline vehicles. Certainly, EV has evolved to be produced by many mainstream automobile manufacturers. Batteries play an important role in EVs because they serve the purpose of being either the primary energy source or the backup source in hybrid EVs. Battery performance is dependent on certain factors such as temperature, chemical composition, age, and rate of charge or discharge. In EV's, it is important to monitor the battery's state of charge (SoC) although this is not always easy because the characteristics of the battery itself. The boom of the World Wide Web has intensified interest in e-money that can be transferred over the internet. So, it is necessary to do the transactions for the charging of the vehicle electronically. The currently available charging stations are company based. That is the companies are having their individual charging stations for free of cost. And a person can charge their E-vehicle on the respective companies charging station only. No universal as well as paid charging stations are available.

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Smart Electric Vehicle Charging Station

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Basecamp (Kanban Board)

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ABSTRACT: The Kanban board is a tool for workflow visualization, designed to help you bring clarity to your work process and enhance efficiency by limiting work in progress. Kanban is a tool developed to increase productivity and eliminate waste from their large-scale manufacturing processes. Recently, the system has been used as a tool of choice in Lean software development. New variations of the system are becoming increasingly popular in the industry, but ever since there has been no comprehensive and critical evaluation of the Kanban system applied to large-scale software projects. Basecamp (kanban board) is a tool developed to increase productivity and eliminate waste from their large-scale software projects. Basecamp (kanban board) is a tool of choice in Lean software development. New variations of the system are becoming increasingly popular in the industry, but ever since there has been no comprehensive and critical evaluation of the Kanban system applied to large-scale software projects. This report describes the Kanban system, its origins and recent adaptations to the area of software engineering. It also discusses the philosophy Kanban system is a very cost efficient process if applied in proper manner.

INTRODUCTION:

Basecamp (kanban board) is a tool developed to increase productivity and eliminate waste from their large-scale software projects. Basecamp (kanban board) is a tool of choice in Lean software development. New variations of the system are becoming increasingly popular in the industry, but ever since there has been no comprehensive and critical evaluation of the Kanban system applied to large-scale software projects. This report describes the Kanban system, its origins and recent adaptations to the area of software engineering. It also discusses the philosophy Kanban system is a very cost efficient process if applied in proper manner. Principles of kanban system visualize work, limit work in progress, focus on flow, continuous improvement key words: Kanban System, Just in Time, Lean Manufacturing, Total Quality Control. One of the main advantages of Kanban is its flexible and non-prescriptive nature. It provides the team with a small set of guidelines for managing any project. After the primary rules have been applied the project manager needs to make decisions based on his team's size and performance. The manager can make changes and modify certain attributes of the system. This apparent advantage of Kanban can become an issue for inexperienced users who have never used the method before.

Therefore, the purpose of this paper is to evaluate this new methodology in the context of small software projects and make recommendations about the best practices which could be applied to improve their current projects. In order to do that, exhaustive testing and evaluation of the method in question will be conducted. This project will address issues such as: the optimum size of the team, their experience and roles, projects size, use of time and resources. The main aim and originality of this project comes from the investigation of small projects whose scope is outlined in the next section.

LITERATURE SURVEY:

Mahgol Amin, (2014 Malardalen University). The aim of this paper was the focus on kanban as an engine software development methodology. The board has to update because an outdated kanban board may causes issues in the process of development. Sanjay Pandit Patil, Dr. Jitesh R. Neve (2018). International conference on advanced communication and computing technology. Visualize the workflow eliminate interruptions manage flow make. The board can become to complicated for the kanban team. Taiichi Ohno (1940 By a Japanese Engineer). Agile methodology process policies explicit improve collaboratively. The kanban system requires planned weakly and monthly production schedules coupled with day-to-day flexibility.

METHODOLOGY:

Kanban Cards – This is the visual representation of tasks. Each card contains information about the task and its status, such as deadline, assignee, description, etc.
Kanban Columns – Each column on the board represents a different stage of your workflow. The cards go through the workflow until their full completion.
Work-in-Progress Limits – They restrict the maximum amount of tasks in the different stages of the workflow. Limiting WIP allows you to finish work items faster by helping your team focus only on current tasks.
Kanban Swimlanes – These are horizontal lanes you can use to separate different activities, teams, classes of service, and more.
Commitment Point – A commitment marks a point in the work process where a work item is ready to be pulled into the system.
Delivery Point – The point in the workflow where work items are considered finished.

Problem Definition:

The kanban board is a perfect tool for visualizing potential problems in your process. The logic is simple. If you see a column in which tasks arrive faster than they leave. Work will start to pile up, and the problem will become visible to the whole team. This happens because any fields that are hidden as per hiding or showing a field in a issue type are not considered for search results and in this Example- the fix version is not empty nor unreleased as it doesn't for this project /issue.

Feature Extraction:

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Diabetes Prediction Using Machine Learning Techniques

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ABSTRACT:

Diabetes is one of the major and deadly diseases. It is also a cause of many diseases such as heart-attack, kidney diseases, blindness etc. all among the world many people are suffering from the diabetes. Diabetes can be caused by obesity, lack of exercise, bad living style, due to heredity, high blood pressure. In traditional practices in hospital required information is collected through various tests and treatment is provided on the basis of the diagnosis. Here Big data analytics helps us to find hidden patterns and information which helps us to extract knowledge from the data and predict outcomes. In this paper we have proposed a diabetes prediction model for classification of diabetes based on some regular factors such as Glucose, BMI, Insulin, Age etc. and we have tried to find maximum accuracy with the help of machine learning algorithms.

KEYWORDS: Machine learning algorithms, Dataset, Random Forest, SVM.

1. INTRODUCTION

Diabetes is chronic disease which is caused when your blood glucose also known as blood sugar is too high. Blood glucose is the main source of energy which comes from the food you eat. A hormone called Insulin which is created by a pancreas helps the glucose from the food to get into your cells to be used for energy. Sometimes the body doesn't make enough insulin or any Insulin then the glucose stay inside the body and causes disease such as diabetes. In the traditional process of identifying diabetes the patient has to visit the diagnostic centre again and again, go through various tests and have to wait for day or more to get their reports. Machine learning is a subset of AI which helps machines to automatically learn from previous data improve performance from past experiences and provide outcomes on the basis of learning. Machine learning contains bunch of algorithms that works on huge amount of data. This data is used to train the models and on the basis of the training the models performs specific tasks. Machine learning has various types such as:

○ SUPERVISED LEARNING:

Supervised learning is one of the types of machine learning where labeled data is provided to the model. Labeled data contains a target variable or an output variable that answers a questions of interest. A supervised learning model is a model which learns under supervision, this supervision is provided by labeled data which contains target variables and independent variables. The model learns from the past data. The most widely used supervised machine learning algorithms are Logistic Regression, Random Forest, Gradient Boosted Trees and Support Vector Machine(SVM).



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COV-CARE AND CURE

Snehal Shivshant Patil, Aishwarya Ashok Patil, Ruchita Uddhav Bhosale, Shailesh Keshav Avadoba,
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Maharashtra, India

availability. The entire project has been developed and deployed as per the requirements stated by the covid patients. Any specification untraced errors will be concent rated in the coming versions, which are planned to be developed in near future.

II. PROPOSED ALGORITHM

Cov-Care and Cure is able to manage proper taking care of patients like choosing center, booking bed, booking room at nearest center of patient. This automation will be able to replace the drawbacks of large patient information, Health reports files which were difficult to handle. Secure Transaction, quick retrieval of information, ease of use, quick recovery of errors, fault tolerance are some of the benefits that development team will be working on to achieve end user satisfaction. The Cov-Care and Cure is intended for there servations for room that can be made through online. Our Cov-Care and Cure Project will have 3 Main Modules such as Login module, Centre chooses some specific information which is needed to fill up by patient. Patients will be able to Select Nearest Center, check for room's availability, select the rooms, and pay for the room and also update or modify booking details. Specialist will be able to view the Patient Health report and able to update and delete records in this Pandemic situation our main goal of this introduced Online Cov-Care and Cure software is to simplify every day process of online booking room for patient and take proper treatment on a COVID-19 virus.

Abstract—To implement Cov-Care and Cure is a system for booking the rooms of covid centers through online. It provides the proper management tools and easy access to the Patient information. Today's pandemic situation number of covid patients are increases day by day so in some hospital there are lack of beds rooms so covid centers was developed. here I develop small system which is online booking bed or rooms in covid center for covid patients.

Keywords—Cov-Care and Cure, covid, Patient.

I. INTRODUCTION

The Cov-Care and Cure is to en able to provide the best possible care to covid patients in a timely manner. It will automate various tasks related to patient care, such as filling out forms, sending emails, and managing reports. Its goal is to provide a better experience and healthcare in lower costs for patients. The team members of Cov-Care and Cure are focused on delivering a variety of features that will make the end user experience more pleasant as well as helping to patients for find out the nearest covid center in less time. The main aim is easily find out nearest covid centre where doctors nurses gives proper immediately treatment to covid patients. The system aim sat the maintenance and management of the different Centers that are available in the center management at the core area of the database. The system provides the information regarding the different centers that are available and their status specific to



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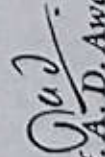
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D'DIARIES
RESTAURANT

NATIONAL LEVEL TECHNICAL EVENT

TECH-SYMPIOSIUM 2K23



This is to certify that Mr./Miss. Gururaj Shubhash Chavan
of J.J. Magdum has ~~Winner~~ Runner-up/
~~Participated~~ Co-ordinated in the event Tech Tank.
held on 24th February, 2023.

Department Co-ordinator

Chief Co-ordinator

H.O.D

Director

Department of First Year Engineering & Technology

Student Achievements
ACADEMIC

Academic Year	Sr No.	Name of Student	Winner/Runner up	Event
2018-19		Nil		
2019-20		Nil		
2020-21		Nil		
2021-22	1	Ms. Akanksha Vasant GaiKWad	Yashwantrao Pandurangrao Pawar Award -Stood First at B.Tech. (CBCS)First Year all branches examination	Award of Prizes at B.Tech.(CBCS) Exam April/May 2022
	2	Shivam S. Saraswat	Second	Master Mind Quiz Competition
2022-23	1	Suraj Kailas Sarnobat	Second	Project Competition IDEATHON 2023 [PHASE-I]
	2	Roshan Balvant Patil		
	3	Yashraj Gourishankar Patil		
	4	Rushikesh Kumbhar		
	5	Shreyash Chougule		Paper Publication
	6	Rushikesh Kumbhar		
	7	Yashraj Patil		
	8	Suraj Sarnobat		Paper Publication
	9	Atharva Gurav		


H.O.D., F.Y.B.Tech.

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(Dr. J. J. Magdum College of Engg-
Jaysingpur.)





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WINNER CERTIFICATE

THIS CERTIFICATE IS PROUDLY PRESENTED TO

Suraj Kailas Sarnobat

For securing 2nd Rank in "IDEATHON (Phase - I)" on 26th May 2023 Organized through AICTE IDEA Lab and General Engineering Department at D.K.T.E's TEXTILE AND ENGINEERING INSTITUTE, Rajwada, Ichalkaranji.

Prof. S. A. Patil
HOD
General Engineering
Department



Prof. Dr. V. D. Shinde
Coordinator
DKTE IDEA LAB

Prof. Dr. L. S. Admuthe
I/C Director
DKTE's TEI, Ichalkaranji



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Patil Yashraj Gourishankar

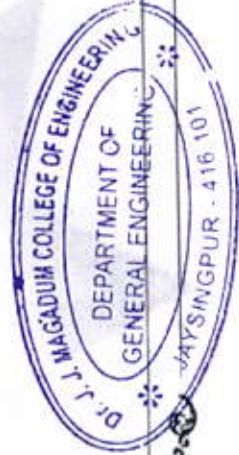
For securing 2nd Rank in "IDEATHON (Phase - 1)" on 26th May 2023 Organized through AICTE IDEA Lab and General Engineering Department at D.K.T.E's TEXTILE AND ENGINEERING INSTITUTE, Rajwada, Ichalkaranji.

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CERTIFICATE

THIS IS TO CERTIFY THAT

Rushikesh Suresh Kumbhar

has successfully participated in an Event on "IDEATHON (Phase- I)" on 26th May 2023 Organized through AICTE IDEA Lab and General Engineering Department at D.K.T.E's TEXTILE AND ENGINEERING INSTITUTE, Rajwada, Ichalkaranji.(Dist. - Kolhapur).

Prof. S. A. Patil
HOD

General Engineering
Department

Prof. Dr. V. D. Shinde

Coordinator
DKTE IDEA LAB

Prof. Dr. L. S. Admuthe
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(Jaysingpur.)

IMPLEMENTATION OF ULTRASONIC DISTANCE DETECTOR USING ARDUINO

Prof. Dr. D. B. Unde¹, Prof. P. P. Patil², Prof. M. B. Bhilawade³, Prof. S. M. Attar⁴

Mr. Shreyas Chougule⁵, Mr. Rushikesh Kumbhar⁶, Mr. Yashraj Patil⁷

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ABSTRACT

This project proposes the principle of implementation of Ultrasonic Distance Detector using Arduino. In this process, distance will be measured using an ultrasonic sensor. Ultrasonic sensor is a device which will measure distance of the target object. LCD display will also be used in the implementation to display the detection of object and also the distance at which the object is located. The main implementation will be done using Arduino, which will code data regarding the range of object detection. In the process of detecting the object using an ultrasonic sensor, if any object is found below that specific range of distance, then it will display as object detected and display the distance of the object. If the object comes further near below the range mentioned, then the buzzer will start beeping indicating the object. Finally, the main objective of ultrasonic distance detector in the project is to portray the experimental results of detecting the vehicle in night times and on curve roads and calculate the respective longitudinal and the horizontal distance to the preceding vehicle and give an indication if the distance is less than the specified

Keywords: Ultrasonic sensor, Arduino UNO, Ultrasonic bursts, distance detector, Obstacles.

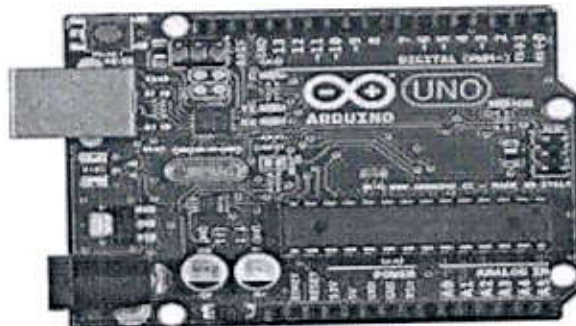
1. INTRODUCTION

The project is about the working concept of calculation of distance of the nearby objects or obstacles with the help of an ultrasonic distance meter circuit using an ultrasonic sensor (HC-SR04) which is able to sense the obstacles in its way and the LCD display of configuration 16x2 to display the distance of the object from the ultrasonic sensor and the information regarding the object whether it is found or not. The Arduino UNO is a hardware as well as a software tool which is used all over in the progression of the project and the code to calculate the distance is run on the software Arduino IDE. The buzzer is also used in the project to indicate the existence of the object in a very close territory.

2. COMPONENTS

1. Arduino UNO:

The Arduino UNO is one of the major components used in the project which gives the power supply of 5V. It is a microcontroller board which is an open-source system. It is a microcontroller board which consists of both Analog and the digital pins. These Analog and the digital pins can be used as input/output pins to interface various circuits.



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DESIGN AND ANALYSIS OF LDR AND IR SENSORS BASED AUTOMATION SYSTEM

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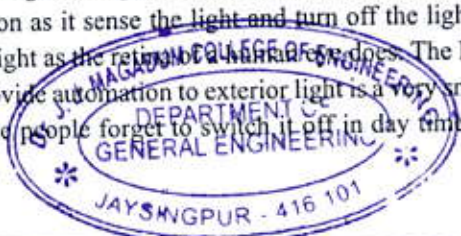
ABSTRACT

In today's busy world, every person wishes to reduce human effort. Nowadays Automatic systems are being preferred over manual system to make life simpler and easier in all aspects. Operating home appliances become aseasy as changing TV channels. Remote Controlled automation uses IR sensors to control home appliances using a TV/DVD/VCD remote. Home appliances like fan, light, radio, cooler, music system, home theatres etc can be turned ON/OFF using a remote. Remote Controlled home automation is expected to work in a range of 10 meters without barriers/walls in between. The IR rays transmitted by the TV remote control will be received by IR receiver installed in the circuit. A microcontroller accesses the appliance's mains and controls the load thereby controlling it. An LED would display the status of the particular appliance whether the device is ON or OFF. RC- automation would also consist of LDR dependent light control. Exterior light (light near the door way) needs to be switched on during night time, Light Dependant Resistor (LDR) is a type of sensor which actually senses the light as our eyes does. When the sunlight comes, visible to eyes it automatically switches OFF the lights. The LDR would turn on the light as soon as it senses darkness and will turn off in the morning. Remote Controlled home automation is a small step towards reducing human effort and to use technologies smartly and efficiently to human benefit.

Keywords- LDR-Light Dependent Resistor, IR-Infra Red, LED-Light Emitting Diode, RC-Remote Controlled, IC Integrated Circuit.

1. INTRODUCTION

In today's world need of automation is become necessary not only to reduce human effort but also toutilize maximum of the technology and to do everything smartly and efficiently in order to reduce both energy and time consumption. so, the idea of home automation is basically deals with such problems and provide home a smart system to operate household appliances conveniently this helps to advance the living standards of new age people and also helps the old age aged or handicapped person to perform their task without any trouble.RC- home automation using LDR and IR sensor is a further step in home automation. The system uses IR sensors to control or to operate household appliances like TV, fans, music systems, tube light, radio within the range of 10 meters. Hardware requirement for RC automation are IR transmitter, IR receiver, transistors,IC, LED light, LDR sensor, batteries, bread board and connecting wires. The system works as soon as the IR rays by the IR transmitter are sensed by the IR receiver. In response the IR receiver will turn on or will turn off the device accordingly. The IR transmitter is nothing but Remote controller of TV or of media player, The IR receiver module of the circuit is been embedded with home appliance which the person wants to control for making the home automation easy, convenient and with good performance. The system is beneficial as the system using IR sensor which has a longer wavelength than visible light, so the human eyes cannot recognize or it is not seen through naked eye and can travel without any system barriers it can penetrate through the walls. The IR sensors are very effective and give the good coverage. RC- automation will also use the LDR sensor for the exterior night light. It will work as soon as it sense the light and turn off the light. LDR (light dependent resistor) is a light dependent sensor, it detect the light as the retina of our eyes does. The LDR in RC- automation is to eliminate the manual efforts. Using LDR to provide automation to exterior light is a very smart technique to avoid unnecessary usage of it as mostly in home many of the people forget to switch it off in day time so it is a very powerful approach in releasing such wastage of electricity.



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Department of Information Technology

Date-5.5.2023

Following are the Copyrighting Problem statements

1. Braille rod
2. Real time Vehicle Detection Recognition and counting using Tensor Flow.


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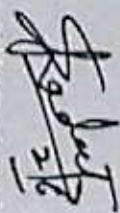
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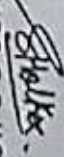
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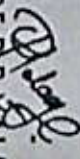
THIS CERTIFICATE IS AWARDED TO

Mr. Prathmesh Godase

OF CLASS 5Y CSE FOR BEING A WINNER IN
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