Department of Electronics and Telecommunication

Project Group

2020-2021

Group No	Student Name	Project Guide	Project Name
Group 1	/CHAVAN POOJA /MULANI SHAMA SHOUKAT /SAWANT GAYATRI MANISH PATIL SANTOSH MAHADIK AMIT	Mrs.V.V.Bhiungade	Dynamic Detection of Roadways Safty Rules Breaks for Safe Drive
Group 2	/HARGE PRAJKTA S. /MANNUR RUTVIKA M. /VASUDEV PRANALI P.	Mr.P.S.Langade	Text Reader for Virtually Impaired People
Group 3	JOSHI RUGVED NITIN HIPPARGI BHUSHAN PINJARI UMAR	Mr.S.M.Gramopadhye	Intelligent Traffic Signal System
Group 4	KUMBHAR PRAVIN CHINDE PREETAM CHOUGULE AMOGSIDHHA	Mr.M.J.Pandhare	Student Attendance System
Group 5	BHORE ABHISHEK DEVDAN AINAPURE PRATHMESH CHAVAN PRASHANT	Mr.S.M.Gramopadhye	Intelligent Traffic Signal System
Group 6	/NADAF AAFARIN /WADEKAR POOJA /KAMBLE SAKSHI ANIL	Mr.M.J.Pandhare	Small Virtual Assitance
Group 7	/MANE MANALI /SALUNKHE SHRUTI /SHINDE PAYAL	Mr.M.N.Potdar	Automated Pesticide Spraying and Fertilizing robot
Group 8	/KORE AAKANKSHA S. PAWAR PRIYANKA /SHIKALGAR SHAHIN	Mr.M.N.Potdar	IOT Based Hydrophonic Agriculture System
Group 9	/BUTALE SANCHITA /MUJAWAR KOUSEN M. /MORE ANKITA ASHOK	Mrs.N.S.Hunnargi	An Efficient Health Monitoring Based On IoT
Group 10	PATEL MISENAZ /JAMADAR NEEDA /PATIL DHANSHRI	Mrs.S.S.Kadam	Automated Tricycle For Handicap

Shri Ambabai Talim Santha's
SANJAY BHOKARE GROUP OF INSTITUTES,
Faculty of Engineering, Miraj.
Department Of Electronics and Telecommunication Engg.
ACADEMIC YEAR – 2020-21

GLIMPSE OF PROJECT

TITLE OF PROJECT: "DYNAMIC DETECTION OF ROADWAYS SAFETY RULES BREAK FOR SAFE DRIVE"

Name of Project Students (with roll numbers):

1. **Amit Satish mahadik (05)**
2. **Santosh Ananda Patil (13)**

Project Guide: Prof.Mrs. V. V. Bhiungade

Abstract:

The principle point is to accomplish zero disappointment foundation for the general public.Attributable to dangerous condition on streets, the rate of mishaps in India has been high.Considering the gravity of the conditions, there is accord that deliberate measures are vital for lessening this abnormal state of mischance passing's and wounds through enhanced security measures and movement administration. The proposed framework has been intended to beat the weakness in the movement administration. The framework gives data about street blockage, capacity to control the stream of activity and furthermore practice crisis exit for crisis vehicle. Interfacing of GPS, GSM with the genuine existing movement instrument additional items the capacity of the proposed framework to lessen human intercession and increment the nature of activity administration.

Conclusion:

The proposed design will deal with critical issues faced with increasing traffic in the near past and will help to solve them with technologically sound equipments and ideas. This system can overcome the fear that scares every person safety while driving in the country.

Project Guide	Project Co-Ordinator	Head(E&Tc)	Director
Mrs.V.V.Bhiungade	Mr.M.N.Potdar	Mrs.V.V.Bhiungade	Dr. A.C.Bhagali

Shri Ambabai Talim Santha's
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Department Of Electronics and Telecommunication Engg.
ACADEMIC YEAR – 2020-21

GLIMPSE OF PROJECT

TITLE OF PROJECT: "DYNAMIC DETECTION OF ROADWAYS SAFETY RULES BREAK FOR SAFE DRIVE"

Name of Project Students (with roll numbers):

1. **Gayatri Sawant (09)**
2. **Shama Mulani (22)**
3. **Pooja Chavan (24)**

Project Guide: Prof.Mrs. V. V. Bhiungade

Abstract:

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Mrs.V.V.Bhiungade	Mr.M.N.Potdar	Mrs.V.V.Bhiungade	Dr. A.C.Bhagali

Shri Ambabai Talim Santha's
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Faculty of Engineering, Miraj.
Department Of Electronics and Telecommunication Engg.
ACADEMIC YEAR - 2020-21

GLIMPSE OF PROJECT

TITLE OF PROJECT:TEXT READER FOR VISUALLY IMPAIRED PEOPLE

Name of the Student:	Roll No
1. Ms. Vasudev Pranali P	16
2. Ms. Mannur Ruthvika M	26
3. Ms. Harge Prajakta S	32

Project Guide: Mr. P. S. Langde.

Abstract:

Human communication today is mainly via speech and text. To access information in a text, a person needs to have vision. However those who are deprived of vision can gather information using their hearing capability. The proposed method is a camera based assistive text reading to help blind person and the travellers in reading the text present on the text labels, printed notes and products in their own respective languages. It combines the concept of Optical Character Recognition (OCR), text to Speech Synthesizer (TTS) and translator in Raspberry pi. Optical character recognition (OCR) is the identification of printed characters using photoelectric devices and computer software. It converts images of typed, handwritten or printed text into machine encoded text from scanned document or from subtitle text superimposed on an image. Text-to-Speech conversion is a method that scans and reads any language letters and numbers that are in the image using OCR technique and then translates it into any desired language and at last it gives audio output of the translated text. The audio output is heard through the raspberry pi's audio jack using speakers or earphones.

Project Guide	Project Co-Ordinator	Head (E&Tc)	Director
Mr.P.S.Langde	Mr.M.N.Potdar	Mrs.V.V.Bhiungade	Dr. A.C. Bhagali

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ACADEMIC YEAR - 2020-21

GLIMPSE OF PROJECT

TITLE OF PROJECT: INTELLIGENT TRAFFIC SIGNAL

Name of Project Students:

1. Rugved Joshi (06)
2. Bhushan Hippargi (12)
3. Umar Nadaf (14)

Project Guide: Mr. S.M.Gramopadhye

Abstract:

For smart city management, efficient handling of road traffic is one of the key aspects. Traffic congestion can be managed effectively, if the numbers of vehicles that are to pass through a crowded junction can be pre-estimated in time. The proposed method presents a framework, which has the capability to continuously convey the vehicle count and generate an alarm in case of large vehicle gathering to the controlling station in the Chandigarh or alike urban Indian cities. The number of vehicles passing through a location well before the required traffic junction can be estimated using the help of image processing techniques. Further, the monitoring details can be shared to a distant controlling center situated anywhere in the city through internet usage. The performed experiments demonstrate the effectiveness of this Internet of Things (IoT) based technology

Conclusion: This proposed system will be able to build a developed country with less traffic jams and it will also help the emergency vehicle to reach in time to the destination.

Mr.S.M.Gramopadhye	Mr. M.N.Potdar	Mrs.V.V.Bhuingade	Dr. A.C. Bhagali
Project Guide	Project Co-Ordinator	Head(E&Tc)	Director

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ACADEMIC YEAR - 2020-21

GLIMPSE OF PROJECT

TITLE OF PROJECT:

"Attendance System Using Face Recognition Interfacing Using GUI."

Name of Project Students (with roll numbers):

1. **Preetam Chinde (28)**
2. **Praveen Kumbhar (29)**
3. **Amogasiddha Chougule (31)**

Project Guide:Mr. M.J.Pandhare

Abstract:

Uniqueness or individuality of an individual is his face. In this project the face of an individual is used for the purpose of attendance making automatically. Attendance of the student is very important for every college, university and school. Conventional methodology for taking attendance is by calling the name or roll number of the student and the attendance is recorded. Time consumption for this purpose is an important point of concern. Assume that the duration for one subject is around 60 minutes or 1 hour & to record attendance takes 5 to 10 minutes. For every tutor this is a waste of time. To stay away from these losses, an automatic process is used in this project which is based on image processing. In this project face detection and face recognition is used. Face detection is used to locate the position of face region and face recognition is used for marking the understudy's attendance.

Conclusion:

The face detection and recognition algorithms were studied thoroughly taking a number of the tests from different varying condition images. For face detection a combination of RGB and HSV model algorithms is used. For face recognition principal component analysis method is used. Attendance of the student is marked using the recognized face of every individual student and the data is stored in an attendance sheet. The attendance of every student is marked automatically by recognizing their face with the face present in the database.

Project Guide	Project Co-Ordinator	Head (E&TC)	Director.
Mr.M.J.Pandhare	Mr. M.N.Potdar	Mrs.V.V.Bhiungade	Dr. A.C.Bhagali

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Department Of Electronics and Telecommunication Engg.
ACADEMIC YEAR - 2020-21

GLIMPSE OF PROJECT

TITLE OF PROJECT: INTELLIGENT TRAFFIC SIGNAL

Name of Project Students :

1. Prathmesh Ainpure (04)
2. Prashant Chavan (11)
3. Abhishek Bhore (19)

Project Guide: Mr. S.M.Gramopadhye

Abstract:

For smart city management, efficient handling of road traffic is one of the key aspects. Traffic congestion can be managed effectively, if the numbers of vehicles that are to pass through a crowded junction can be pre-estimated in time. The proposed method presents a framework, which has the capability to continuously convey the vehicle count and generate an alarm in case of large vehicle gathering to the controlling station in the Chandigarh or alike urban Indian cities. The number of vehicles passing through a location well before the required traffic junction can be estimated using the help of image processing techniques. Further, the monitoring details can be shared to a distant controlling center situated anywhere in the city through internet usage. The performed experiments demonstrate the effectiveness of this Internet of Things (IoT) based technology.

Conclusion: This proposed system will be able to build a developed country with less traffic jams and it will also help the emergency vehicle to reach in time to the destination.

Mr.S.M.Gramopadhye	Mr.M.N.Potdar	Mrs.V.V.Bhiungade	Dr. A.C. Bhagali
Project Guide	Project Co-Ordinator	Head(E&Tc)	Director

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Department Of Electronics and Telecommunication Engg.
ACADEMIC YEAR - 2020-21

GLIMPSE OF PROJECT

TITLE OF PROJECT: Personal Assistant For Department Using Python.

Name of Project Students (with roll numbers):

1. **Miss. Aafarin Mahamad Nadaf** **2027**
2. **Miss. Pooja Prasad Wadekar** **2015**
3. **Miss. Sakshi Anil Kamble** **2003**

Guide: Mr. Pandhare M. J.

Abstract:

'Jarvis'-A personal voice assistant that use to take the user commands as input and perform tasks based on the user commands. It our proposed system reaches out to help our Department by making their work easier as this system can tell the vision of our college, mission, college information, students list and student's details and endless number of tasks can be done by this. Thus our system can be used for doing the multi-purpose task in robust and flexible approaches. The attempt has been made to develop a personal assistant for our college department using python which help people to control device with their own voice (speech), extract information and perform task on their window.

Conclusion:

The personal assistant has been successfully developed in python. It performs all the functions as per design, thus it takes input or query from the user via microphone which in turn is followed by voice analysis and conversion into text then it performs the required operations, finally producing the output in both text and voice form. This allows user to perform various tasks with more voice commands.

Project Guide	Project Coordinator	Head (E&TC)	Director
Mr. M. J. Pandhare	Mr. M. N. Potdar	Mrs. V. V. Bhiungade	Dr. A. C. Bhagali

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ACADEMIC YEAR - 2020-21

GLIMPSE OF PROJECT

TITLE OF PROJECT: "AUTOMATED PESTICIDE SPRAYING AND FERTILIZING ROBOT"

Name of Project Students:

1. Miss. Shruti Rajaram Salunkhe. (21).
2. Miss .Manali Raju Mane. (10).
3. Miss. Payal Nandu Shinde. (23).

Project Guide Name: Mr.M.N. Potdar.

Abstract:

On the earth 42% of population is dependent on an occupation of agriculture, they have to do a lot of work and more load on them. Among these works spraying pesticides is harmful and difficult because chemicals used in these pesticide liquids are dangerous. It may causes problems of breathing and some physical problems. So they have to suffer more problems during farming. So, an agriculture robot which helps the farmers to pesticide the liquids and minimize their workload, we named that robot for spraying pesticides "Automated Pesticide Spraying and Fertilizing Robot".

Project Guide	Project Co-Ordinator	Head (E&Tc)	Director
Mr.M.N.Potdar	Mr.M.N.Potdar	Mrs.V.V.Bhiungade	Dr. A.C. Bhagali

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ACADEMIC YEAR - 2020-21

GLIMPSE OF PROJECT

TITLE OF PROJECT: IOT Based Hydroponic Agriculture System

Name of Project Students :

1. Shahin Ismail Shikalgar (01)
2. Aakanksha Shashikant Kore (17)
3. Priyanka Pradeep Pawar (25)

Project Guide Name: M.N.Potdar

Abstract: The unpredictable climate changes include extreme weather conditions, intense storms, heat waves, and flood will have a substantial adverse impact on world agriculture sector.we need more production from agriculture systems to meet the growing food demands.Hydroponic system as a modern and innovative plant cultivation techniques under the soilless system. By adopting these techniques, the growing food crises could be resolved.in Hydroponic system there are a variety of flowers, vegetables and herbs that can be grown using hydroponics.the emergence of IOT has allowed farmers to automate the hydroponic culture. Monitoring of water level, pH, temperature, flow, and light intensity can be regulated by the use of IOT.so we are decided to do the project on "IOT based hydroponic agriculture system".

Mr.M.N.Potdar	Mr. M.N.Potdar	Mrs.V.V.Bhiungade	Dr. A.C.Bhagali
Project Guide	Project Co-Ordinator	Head (E&Tc)	Director

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ACADEMIC YEAR - 2020-21

GLIMPSE OF PROJECT

TITLE OF PROJECT: "An Efficient Health Monitoring Medicare Unit Based On IOT"

Name of Project Students (with roll numbers):

1. **Ankita More (07)**
2. **Sanchita Butale (02)**
3. **Kousen Mujawar (20)**

Project Guide: Prof.Mrs. N.S. Hunnargi.

Abstract:

The medication noncompliance problem has caused serious threat to public health as well as huge financial waste would wide. The emerging pervasive healthcare enabled by the Internet-of-Things offers promising solutions. In addition, an in-home healthcare station (IHHS) is needed to meet the rapidly increasing demands for daily monitoring and on-site diagnosis and prognosis. In this paper, a pervasive and preventive medication management solution is proposed based on intelligent medicine box (iMedBox). The intelligent pharmaceutical packaging is sealed and controlled by wireless communication. Various vital parameters can also be collected by wearable biomedical sensors through the wireless link. Additionally, friendly user interface is emphasized to ease the operation for the elderly, disabled, and patients.

Conclusion:

It is portable and easy to use. As preventation is better than cure.Thus modern technologies have developed that promotes and gives us better life which is disease free.

Project Guide	Project Co-Ordinator	Head(E&Tc)	Director
Mrs. N.S Hunnargi	Mr.M.N.Potdar	Mrs.V.V.Bhiungade	Dr. A.C.Bhagali

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ACADEMIC YEAR - 2020-21

GLIMPSE OF PROJECT

TITLE OF PROJECT: AUTOMATED TRICYCLE FOR HANDICAPS

Name of the Student:	Roll No
1. Ms. Patel Meenaz M	18
2. Ms. Jamadar Nida A	30
3. Ms. Patil Dhanashree Y	08

Project Guide: Mrs. S. S. Kadam.

Abstract:

For A normal human being have plenty of resources available for mobility but when it comes to the physically handicapped person options are limited as very few form automobile industries put the focus on them. Majority of the physically disabled person uses hand operated tricycle or retrofitted scooters. Mechanical tricycle requires more human effort and it is a tedious task. Modified scooter is one of the best option which is powered by IC engine but cost of such vehicle high and requires periodic maintenance. So considering limitations of above options this project aims at design an eco-friendly tricycle powered by electric motor. This tricycle is convenient to a handicapped person as well as affordable to a poor person, as cost is major issue for them.

Project Guide	Project Co-Ordinator	Head (E&Tc)	Director
Mrs.S.S.Kadam	Mr.M.N.Potdar	Mrs.V.V.Bhiungade	Dr. A.C. Bhagali