

ARTIFICIAL INTELLIGENCE

| S.NO | Project Name | Description |
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| AI1 | Automatic garbage collection truck OR Deep Learning for object identification in mobile ROBOT using Raspberry Pi and OpenCV | Depends on object identification we choose one application i.e Automatic Trash Collection. Robot will follow the line and collect the trash bin using image processing with Raspberry Pi and pick and place |
| AI2 | Driver monitoring system using camera and Raspberry pi Or Towards detection of bus driver fatigue based on robust visual analysis of eye state | Driver will be monitor continuously by using sensors and camera. Our system will find the drowsiness and fatigue of the driver and immediately take the vehicle to system control |
| AI3 | Voice assisted text reading system for visually impaired persons using TTS method | Our system will help to read text for visually impaired people. Read the text and give the voice output |
| AI4 | Voice Activated smart home design and implementation Amazon ALEXA | Play Music , Home Appliances Control ,Time Announce , location search, etc., |
| AI5 | Implementation of machine learning for Gender detection using CNN on Raspberry Pi platform | This system will able to identify the gender and give the voice commands to based on gender |
| AI6 | The Detection and reorganization of Cracks on Bridges based on deep belief network | Our system will find Bridge Cracks and updated to server with location |
| AI7 | Robotic explore to search people through face detection | Robot will find the people who struck in Collapsed building due to earthquake or structural failure. Our robot will enter human cannot enter areas and find the people. |
| AI8 | IOT Based criminal identity system | Our system will find out the criminals using image processing technology. This is very useful for Police. We will fix this system in public rush zones. Continuously monitor the public and compare with database any person match with data base, its immediately intimate to police. |
| AI9 | Embedded System Implementation for material recognition for deep learning | This system will separate recycling material from garbage |
| AI10 | An appropriate model predicting pest/diseases of crops using machine learning algorithm | This system will create revolution in agriculture industry. Our system will find Decease of the crop in early stage and inform to the former so they can take care the crop in early stage. |
| AI11 | Emotion Based Music player | Our system will identify the human emotions like sad, happy, in tension and our system will play music with respect to the emotions, so that they may feel good in sad movement and enjoy the happy movement as well. |
| AI12 | Automatic bus vacancy and bus tracking using image processing and GPS | Our system will very helpful for public transport as well as private transport. What our system will do is identify the |

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| | | number of people in bus and location as well and update to the server. This is very helpful for users in city transport. |
| AI13 | Smart Fencing for Crop field | We will provide hi security for crop fields using night vision cameras and low voltage fencing and alarm |
| AI15 | Eyeball Based wheel chair control | Our System will control the wheel chair using eye ball movement. Suppose if you turn your eye ball towards right side, your wheel chair will also turn right side. In the same way you can control your wheel chair towards front, back, left and also to stop the wheel chair as well. |
| AI16 | Eyeball Based courser(mouse) control | Our System will control the courser using eye ball movement. Suppose if you turn your eye ball towards right side, your course will also move right side. In the same way you can control your courser towards up, down, left also. |
| AI17 | Smart receptionist using raspberry pi | In this project our system will find the gender based on gender say hi madam/sir and welcome voice message and voice interaction also |
| AI18 | Sign language recognition using image based hand gesture recognition techniques | Based on the hand signs you will get voice output |
| AI19 | Color marker based digital art using OPENCV | We have to draw in front of that camera in the air so that it has been processed and make an art in white frame. |
| AI20 | Blind people assistance system in home | Our system will find out the human face and give the voice output his name (if his name exists in database else it will give the output as unknown person). Home devices will operate with voice commands like 'light on' and 'light off' like that. To find the things and places we are using RFID technology, and also person position status will continuously upload to the server using MEMS sensor. |
| AI21 | Traffic density measurement using Raspberry Pi and WEB camera | Our system will find out the number of vehicles in traffic and till what distance the traffic exist |
| AI22 | Secure Authentication for ATM Using Face Recognition | We design high secured ATM for users. In this system, we used new technology i.e Face recognition. We developed as usual previous system with one added advance feature i.e Face detection |
| AI23 | Lane detection and steering control using raspberry pi | Our system will find the lane in both sides using camera and also control the steering (show it on prototype) |

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| | or Self driving car | |
| AI24 | Smart Mirror | Mirror will show the Time, date, Environmental status, mail alerts etc. |
| AI25 | Smart Office Room | |

IOT PROJECTS

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| IOT1 | Design and implementation of automated blood bank using embedded systems | This system will provide the Blood donate mobile numbers in two ways one is through SMS and second one in through internet |
| IOT2 | Automobile black box system for accident analysis | Our system will collect all sensor and camera information store it into SD card and also send to Server |
| IOT3 | Smart door bell and smart car | Door bell inter link with camera, after pressing bell camera will active then we can able to see who came and we can interact with the person with our mobile or PC. Same way our car also, through our smart phone we can operate car storage door (Dickey) using Internet. |
| IOT4 | Indoor location and motion tracking system for elderly assisted living home | With this system we can monitor our elders in home, we can know the physical status and common body parameters like H.B, Temperature, Blood Pressure and also location in home, where they are. |
| IOT5 | Smart Bin: An intelligent waste alert and prediction system using machine learning approach | Continuously we will monitor Roadside Trash Bin and will update to garbage level in trash bin to server. We will control the doors of trash bin when human comes only door will open. It is having fire sensing unit also, when fire occur immediately intimate to fire department Server is having good analyzing software. It will intimate to related persons when trash bin is full |
| IOT6 | Smart Gloves | To operate high voltage or high risk devices this glove will helpful very much, without warring glove, device will not witch on if you press the power button. |
| IOT7 | Medicine reminder and smart health Card | Health card is having all information about medicine and patient health condition. Our system will capture all information about medicine from health card and give the alarm with respect timings. |
| IOT8 | Developing a PDA to control device using proposed algorithm | Voice operated Home Electrical appliances like Fan, Light, TV |