

TRINETRA

Introduction

These days humans don't hook on to one thing and stay there, they innovate and make new technology. Smartphones one day need to be replaced and the best way to do this is to make accessories that are easy to use and wear. Hence, **SMART GLASSES**.

Our project aims to make smart glasses that help people to make daily tasks in their lives easy. Keeping **health in mind** we have a comprehensive range of tasks that are useful and don't hurt the eye. Using Raspberry pi and Python code we have a demo of:

- 1. Notification Mirroring**
- 2. GPS Navigation**
- 3. Object Identification using Computer Vision (Open CV or Tensorflow)**

Notification Mirroring

Using the inbuilt bluetooth of Raspberry Pi 3B+, we are using an app called Pushbullet to help us mirror the notifications received onto the phone to the Raspberry Pi, which will be projected on the screen of the Smart Glasses. The notifications will appear on the screen, which will make it easy for them to act immediately, if the notification was any emergency.

GPS Navigation

We are using a GPS Module to help us navigate. The Module finds the user's location and directs the user to the desired destination. This will navigate just like the Google Maps used on phones. This will make it easy for the user to navigate, as it is tough to always keep looking at the phone and navigate yourself.

Object Identification using Computer Vision

We are using a software called "TensorFlow" in our Raspberry Pi. This helps us use Neural Networks, so that our project can identify what object it is looking at. In any case, if we aren't able to recognize any object and want to know more about it, we can use this tool of our project, and get more information about the object we are looking at, and understand it better.

So, this is what our "Smart Glasses" is all about. We are quite sure that a lot of people will be benefitted by this project, and this will be a quite popular item in the market. Hoping that this project results in helping and doing greater good to the world.