Problem Definition :

In our lives there are many people who are suffering from different diseases or handicaps. Blind people or anyone have vision difficulties. These people need some help to make their life easier and better.

Aim of the Project :

The main goal of "smart glasses" is to help blind people and people with vision difficulties by introducing a new technology that makes them able to recognize the environment around them in an easy way

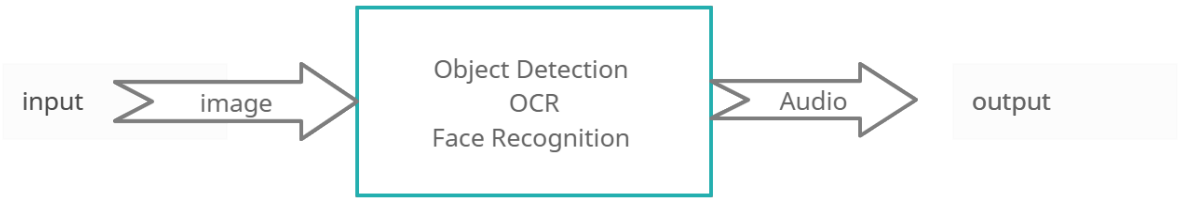
Method :

a. Object Detection : that detects and defines objects such as humans, buildings and cars from digital images

b. OCR : The task is to scan any text image and convert it into audio text, so the person will listen to the audio through a headphone that's connected to the glasses.

c. Face Recognition : to recognize the people he may be know

d. Speech Recognition : In order for the glasses to recognize the voice of a blind person and perform the required task



Study Plan :

First phase: we are studying python and OpenCV
Second phase: object detection using TensorFlow2 - Yollo Algorithm
Third phase: OCR and convert text to speech
Fourth phase: Face Recognition
Fifth phase: Connect project final test and debugging

We are using : Raspberry Pi, Camera, Power bank, Mic, Camera and wires