

- **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

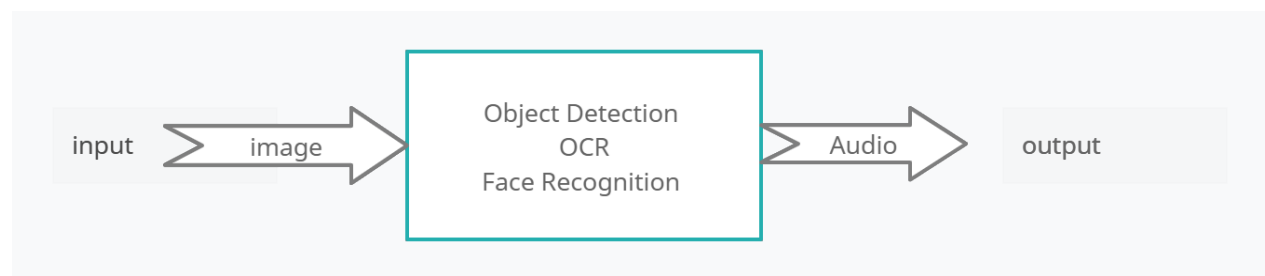
- **We used this technology to build our Solution:**

a. Object Detection : by using TensorFlow v2 and Yolo Algorithm 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



- **Finally** We Connect project final test and debugging.
- **We are using** : Raspberry Pi, Camera, Power bank, Mic and wires.
- **We hope in the future:** that we will work on developing this solution and add new features such as that the blind person who wears glasses if he is in a place he does not know, can share his location with the closest people to him through an application on his mobile that is connected to the smart glasses in order to come to him in the shortest time.