**README**

**HACKATHON 4.0 (JAIPUR)**

**Theme:** MACHINE LEARNING

**Problem Statement:** Inaccessibility of Modern Technology to Differently abled (Blind People)

**Technology Used:** Machine Learning, Computer Vision, MCU’s (Raspberry Pi), Text to Speech, Android

**INTRODUCTION:**

Our device can help blind people to do following things:

* Identify environment around you
* Read Text
* Read Hand-Written Text
* Save faces and recognize them
* Know colors of things

The output is given into sound

The entire device is controlled using voice automation

Along with the above objects we made an audio assistant, using which a blind person can:

* Send an email
* Set a Reminder
* Set an Alarm
* Write text files using audio input
* Send SOS message
* Search information
* Listen to Music

**Uniqueness:** Efficient, economic, easy to use device to render equality and individuality in the society.

**ABSTRACT:**

Our application IRIS works for the differently abled people (Blind People), who were not able to see the beauty of nature. Because of our project a blind person can even analyze, read text, make calls, and find the best out of services with the help of voice automation. The brilliance of our project is that it needs no other resources just a device and an android mobile to work without any hustle. Now these people are not dependent on others, they will do their work by own by using simple instructions.

Steps to install

1. Install our android app
2. Copy all the python files on a raspberry pi/ windows pc
3. Connect camera to the pc/pi
4. Run the main.py
5. Use the application to navigate the app