**USER MANUAL**

**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

**Solution:** Using different features of computer vision, to recognise physical entities and using text to speech to provide them to visually impaired people. Along with the features like:-

1.Text recognition.

2.Identifying colour, shape.

3.Face recognition.

4. Navigation.

5. Familiarity of environment.

6. Tool against crime.

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

**MANUAL:** -

In this model we are helping for the differently challenged people (Blind People). We created a prototype model through which, the blind person will look around the world. Because of this model the blind person can be able to see the beauty of earth. We all do our work with the help of new technologies and due to which we have ease of working. But for blind people no one cares. So we made this model in which they can analyze, look around, do their work with voice automation, move around, read text, call upon their safety (SOS) etc.

Now I will make some ease of steps for their working, so that without much of Hussle they will do the best of work and find the best way to their problems: -

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| **SNO.** | **COMMAND** | **WORKING** |
| (1) | OPEN IRIS APPLICATION | USING OK GOOGLE TO OPEN THE APP |
| (2) | TO SEND FURTHER COMMANDS | USE VOLUME DOWN BUTTON OR TAP HALF BELOW ON SCREEN TO CONVERT SPEECH TO TEXT |
| (3) | SEND AN EMAIL | WE CAN SEND EMAILS BY GIVING VOICE INPUTS |
| (4) | SET A REMINDER | SET A |
| (5) | SET AN ALARM | SET AN ALARM |
| (6) | WRITE TEXT FILES | KEEPING RECORD OF DATA USING VOICE INPUT |
| (7) | SEND SOS | EMERGENCY CALL OR SMS |
| (8) | SEARCH INFORMATION | SEARCH SOME INFO ONLINE |
| (9) | LISTEN TO MUSIC | PLAY MUSIC AS PER USERS DESIRE |