

## **AI Enabled Health Care for Disabled Persons**

**(SDG Goal 3: Good Health and Well-Being and SDG Goal 10: Reduced Inequality)**

Persons with disabilities generally have more health-care needs than others and are therefore more vulnerable to the impact of low quality or inaccessible health-care services than others. People taking care of disabled persons have to spend a lot of time in leisure which can lead to less work. Study has proved that people with disabilities may be at increased risk of developing chronic conditions. If this disability is coupled with poverty that the situation becomes more-grave and requires serious concern and can even lead to economic inequality.

Fortunately, we have a few devices like health bands or smart watches which can read a couple of health parameters like heart rate, blood pressure or sleep patterns of a person. If those health parameter records are stored at regular rate, we can have an AI application which can alert the patient or the administrator when it starts recognizing an abrupt pattern of values.

We need an AI enabled Web and mobile application which can work both ends i.e. patient as well as the doctor treating that person(whenever it is required) and can send voice as well as text based alerts to the patient as well as the registered nearby hospital/doctor at the time of emergency situations.

We assume that each disabled person is registered with a unique id (Aadhar ID in INDIA) in all Government Hospitals (Private Hospitals too can be made as a partner hospital based on certain Government laid conditions).

The application will have certain features like:-

1. Our Application will connect all such persons with their NEARBY HOSPITALS.
2. The Application shall keep on recording the health parameters by:-
  - a. The wearable bands
  - b. The doctors treating such persons on their each visit
3. We shall tie-up with any of the companies, manufacturing such wearable technologies which shall provide us the connectivity to the apps running on these devices with our application so that our application can view any of the patient's real time data.
4. The application shall be able to predict the probability of occurrence of a few chronic diseases like cardiovascular, kidney as well as liver infections.
5. The application could be connected with a mobile application also which can send text or voice based messages to their relatives on emergency situations.
6. This AI application shall be able to read a few programmed gestures on the occurrence of emergency situation and alert any nearby relative and the hospital.
7. This application will help to make disabled people an asset rather than a liability.