

Title of the Project: Remote Health Monitoring System With Analytics

Dashboard

Objectives:

- To develop a IoT device which can sense the temperature, pulse, systolic and diastolic details values of the person and upload it to IBM IoT platform.
- In the cloud the data will be sent to a Machine learning algorithm to predict his health status

Workflow

- Send the health parameters (Temperature,pulse,BP) to IBM IoT platform. Use an online simulator.
- Create a machine learning model using Watson studio and Auto AI experiment which will analyze the health status from 0-2 where 0 is that he is perfectly okay, 2 is that the person is very much ill and that he needs to consult a doctor.
- Create a Node-RED flow to get data from IBM IoT devices and which will communicate with mobile apps using HTTP requests.
- Create a mobile app through which The person can register along with their name, age, and gender.
- Store the entire data in the Cloudant DB using Node-RED
- Configure the Node-RED to give the sensor input to the ML model and predict the illness of the person.
- Configure the mobile app which will visualize the health parameters and show the suggestions according to the predicted output.

Results

IOT board send details such as age, temperature, pulse, systolic diastolic data to ML model which is trained previously. After analysing data received from IoT it predict status of human body. For example

Details

Age: 34

Temperature: 36

Pulse: 56

Systolic: 66

Diastolic: 66

Status: Hypothermia + L. BP

