Heart disease monitoring using Internet of Things and Ensembling approach

PRAGADEESH V(123005105)
SANJAY S(123005128)
SURYA S(123005155)

Abstract:

The sudden boom in the field of Internet of Things and Machine Learning is because of its ability to learn from the data in the real-world. In the recent times, people have identified their extensive use in the biomedical field. Our project aims in monitoring the heart in real time with help of sensors such as ECG sensor,heart rate sensors,Inductive proximity sensor, and more.With the data collected through these IoT sensors, we could monitor the heart in real time and any abnormality from the nominal values, we would predict there is a heart disease.Further,the data collected from patients is stored in a cloud database and with help of a ML ensembling approach we would be able to predict the type of heart disease we are expecting and do a proper precaution as well as diagnosis.

References:

[1] A Smart IoT-enabled heart disease monitoring system using meta-heuristic-based Fuzzy-LSTM model
[2] Nandy S, Adhikari M, Balasubramanian V, Menon VG. An intelligent heart disease prediction system based on swarmartificial neural network. Neural Comput Appl 2021
[3] Ali L, Rahman A, Khan A, Zhou M, Javeed A, Khan JA. An automated diagnostic system for heart disease prediction based on v2 statistical model and optimally configured deep neural network.

Guide : DR.PADMAKUMARI P