

HEART ATTACK DETECTION AND CONVULSIONS MONITORING USING IOT

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ABSTRACT:

These days we have an increased number of heart diseases including increased risk of heart attacks. Our proposed system uses sensors that allow to detect heart rate of a person using heartbeat sensing even if the person is at home. The sensor is then interfaced to a microcontroller that allows checking heart rate readings and transmitting them over internet. The user may set the high as well as low levels of heart beat limit. After setting these limits, the system starts monitoring and as soon as patient heart beat goes above a certain limit, the system sends an alert to the controller which then transmits this over the internet and alerts the doctors as well as concerned users. Also the system alerts for lower heartbeats. Whenever the user logs on for monitoring, the system also displays the live heart rate of the patient. Thus concerned ones may monitor heart rate as well get an alert of heart attack to the patient immediately from anywhere and the person can

be saved on time And also construct an convulsions patient health monitoring to intimate to IOT and LCD.

Keyword : Arduino Ide, Esp8266 Wifi Module, SPO2 Sensor (MAX30100), Accelerometer Sensor

INTRODUCTION:

The heart is one of the most important organs in the human body. In today's scenario, health problems related to heart are very common. This paper proposes a heart rate monitoring and abnormality detection system using IoT. The hardware consists of NodeMCU, spo2 sensor, and LCD display. Real-time monitoring of the heartbeat is made possible through the Thing Speak platform. Spo2 heart rate sensor, accelerometer, Wi-Fi Module, and Arduino are