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(57) Abstract :

This idea presents a complete health monitoring device for a pregnant woman based on Machine Learning and IOT. The device can able to capture blood pressure; pulse rate, fetal movement and heart rate based on WIFI in-built microcontroller CC3200 of the pregnant women. Also the device has been designed to measure and monitor the haemoglobin content, blood sugar rate, thyroid level, calcium content, vitamin D3 for a pregnant woman and fetal such that current status of fetus is monitored. With the help of IoT, the proposed system can able to collect and transfer the information to the doctor at the earliest. Machine learning algorithm is able to provide updated status of the pregnant women and the fetus using the device which is compact and wearable. So, doctor can easily analyze the health condition of mother and fetal continuously. Whenever we required previous data, it is easy to retrieve it because of the usage of Machine learning algorithm.

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