Patient Health Monitoring using Fog and Edge Computing

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Abstract:
In modern days, health monitoring plays a vital role in monitoring the patients' health. It is advised that hospitals integrate health monitoring systems into their existing medical infrastructure so that doctors can monitor the vital signs of their patients. The Internet of Things (IoT), recently undergone technological improvements, which interconnects everything to one another and subsequently regarded as new technology. The data taken from the patient needs internet connections to transmit, but not all patients can access good internet connectivity. With these modern technologies, the healthcare sector improves on rapidly with new innovations. With the help of edge technologies like wearables, wireless networks, and other remote instruments, health technologists and professionals have created a great, affordable healthcare monitoring system for people dealing with a variety of conditions. IoT based health monitoring systems are used to collect and exchange patient data from hospital sensors. Here, this study use temperature sensor, pulse sensor, tilt sensor and flex sensors. All these sensors are combined in a single kit of Raspberry pi Pico W. When an input is drawn from the patients all the needed data will be obtained by using these sensors. Specially it also be used for bedridden patients which help in monitoring their movement.

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