An Abstract
On

IOT BASED HEART MONITORING AND RISK PREDICTION

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ABSTRACT

Heart diseases are increasing globally due to lifestyle changes, stress, and the lack of continuous cardiac monitoring, while traditional systems fail to provide real-time tracking and accessible long-term observation. To address this gap, the proposed work develops an IoT-based heart health monitoring and risk estimation system capable of continuously measuring key cardiac parameters such as ECG signals, heart rate, and SpO_2. The system processes the acquired data using a lightweight rule-based algorithm to classify the user's condition into low, medium, or high risk levels, and automatically stores the values on a cloud platform for easy access. A dashboard is included for simple visualization of cardiac trends. Experimental observations show that the system reliably captures physiological signals and provides meaningful risk indications, making it a low-cost, effective solution for remote monitoring and early detection of heart abnormalities.

PROJECT GUIDE

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