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(57) Abstract :
The present invention discloses an IoT-based framework for remote patient health monitoring integrating wearable biomedical sensors (101), communication interface (102), edge gateway (103), cloud server (104), healthcare professional dashboard (105), and patient mobile application (106). The system ensures real-time acquisition, secure transmission, intelligent processing, and predictive analysis of physiological data. By combining edge-cloud analytics, adaptive machine learning, and secure communication protocols, the invention provides timely alerts, personalized insights, and seamless connectivity between patients and healthcare professionals, thereby enhancing preventive healthcare, reducing hospitalizations, and ensuring continuous patient well-being.

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