IJARSCT
International Journal of Advanced Research in Science, Communication and Technology
International Open-Access, Double-Blind, Peer-Reviewed, Refereed, Multidisciplinary Online Journal
ISSN: 2581-9429
Volume 5, Issue 5, June 2025
Impact Factor: 7.67

AI-Powered Patient Health Monitoring System Using Flask

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Abstract: *This paper presents an efficient approach to the AI-Powered Patient Health Monitoring System. It is a web-based application built with Flask that tracks and analyzes patient vitals while providing AI-driven health insights. It supports user authentication, real-time monitoring, and data management in JSON format. Patients can log in to update vitals like temperature, heart rate, and oxygen levels. Integrated with the Bard API, it generates detailed health reports and predicts diseases such as pneumonia and asthma using a vitals-based model. The modular system includes a Flask backend, data processing scripts, and REST APIs for real-time assessments. Future upgrades may include database integration, advanced diagnostics, and wearable device compatibility, offering a scalable, intelligent solution for digital healthcare.*

Keywords: AI-Powered Health Monitoring. Flask Web Framework, Patient Vitals Tracking, Disease Prediction Model, Bard API Integration, Real-Time Monitoring

DOI: 10.48175/IJARSCT-27524