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(57) Abstract :

The proposed invention presents a machine learning-based system designed to revolutionize personalized healthcare diagnosis and treatment. This system aggregates and analyzes data from diverse sources, including clinical records, wearable devices, genetic data, and lifestyle factors, to create a comprehensive health profile for each patient. Through advanced machine learning algorithms, the system predicts disease risks, identifies patterns, and generates customized treatment recommendations. It also incorporates real-time monitoring capabilities, continuously assessing patient health and alerting both patients and healthcare providers to any anomalies, allowing for timely interventions. The system learns from ongoing patient data, enhancing its predictive accuracy and decision-making over time. Additionally, it promotes patient engagement through an intuitive user interface that offers personalized insights and health management tools. By optimizing the diagnosis, treatment, and monitoring processes, this invention offers more precise, cost-effective, and patient-centric care, improving health outcomes while reducing healthcare system burdens.

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