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(57) Abstract :
AI-ENABLED AUTOMATED HEAL THCARE DIAGNOSIS AND TREATMENT PLANNER Abstract The present invention provides an AI-enabled healthcare system designed for automated diagnosis and personalized treatment planning. The system integrates multiple modules, including a user interface, natural language processing (NLP) engine, AI diagnostic engine, treatment planning engine, and a continuous learning feedback loop. The system receives structured and unstructured input data from patients or healthcare providers, processes it to identify potential health conditions using machine learning models, and generates tailored treatment recommendations. The treatment suggestions are based on evidence-based clinical guidelines, patient medical history, and real-time data, ensuring personalized and accurate care. Additionally, the system continuously learns from user feedback _and outcomes to enhance diagnostic accuracy and treatment efficacy. The invention includes secure data handling mechanisms compliant with global healthcare regulations, such as HIPAA and GDPR, and supports integration with wearable loT devices, enabling real-time health monitoring. The AI-driven approach allows for faster, more accurate healthcare decision-making, making the system particularly beneficial for remote healthcare delivery, telemedicine, and resource-limited environments.

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