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(57) Abstract :

The invention features a machine learning-powered, voiced-assistant medical device to generate a better experience for interaction from healthcare professionals to medical systems. Utilizing cutting-edge technology, the device combines state-of-the-art voice recognition capabilities with natural language processing (NLP) and machine learning techniques to accurately interpret and respond to medical queries in real time. It enables healthcare providers to issue voice commands to operate medical equipment, retrieve patient data and receive decision-support guidance informed by a patient's condition, medical history and real-time sensor data. It can also accurately process specialized medical terminology, handle noisy environments via noise cancellation, and generate dynamic, context-aware responses. Moreover, the system is configured for multilingual support and can be easily integrated into most existing healthcare infrastructures, allowing for wide applicability in various clinical environments.

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