

18 Modern healthcare system: unveiling the possibility of quantum computing in medical and biomedical zones

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Abstract

The use of smart technologies such as Quantum Computing has become a transforming weapon in medical and bio medical applications. Quantum computing has proved itself useful in healthcare due to its transformatory and revolutionary ability. Quantum computing offers assurances to create new possibilities for faster, more agile, and mysterious efficiency improvements to all industries, and healthcare is no exception. The healthcare sector needs unprecedented speeds with the aid of quantum technology. Quantum computing will be yet another tool that can be employed to find solutions to diseases like Parkinson, cancer, and other ailments that affect so many lives every day. When we arrive at the more useful stage of quantum computing, one is quite certain that its utilization will be enabling the computers' ability to lead processes as well as analyze and offer remedies at super speed. Slow and extremely expensive trial procedures are a curse to the pharmaceutical and healthcare companies, affecting the development of new drugs and rollout of implementation timelines. Quantum computing has a lot of uses in healthcare because electronic medical records and ICT-based tools create so much of medical data. There are several reasons why health records need virtual environments where professionals will be able to analyze variables like body fluids, circulation, electrolytes, hormones, metabolism, and skin temperature.