

The integration of Artificial Intelligence (AI) in healthcare

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Abstract

The integration of Artificial Intelligence (AI) in healthcare brings up significant legal and ethical concerns that require attention. These challenges involve safeguarding patient privacy, avoiding discrimination and surveillance, and ensuring that technology does not replace human judgment. Additionally, there is a real threat of data breaches and inaccuracies that can have severe consequences for patients, particularly in critical situations. However, we must prioritize transparent algorithms, privacy protection, and patient welfare. To mitigate potential risks, it is crucial to establish strong cybersecurity measures. Despite the absence of established protocols, we should remain confident in our ability to address these concerns and ensure the responsible and safe use of AI in healthcare. Furthermore, there is the economic value that must be evaluated when implementing AIEd systems in real-world scenarios. The obstacles that come with authorizations and AIEd system accuracy could drive an increase in healthcare costs. Developing, implementing, and maintaining software will concur with an upfront investment, and should be compared to the long-term effects of AI utilization. However, if used effectively and in a streamlined manner, AI in healthcare has the possibility of increasing diagnostic performance, thereby improving the allocation of resources and funds to reduce the cost of treatment. Artificial intelligence in healthcare has many significant aspects and impacts in regard to science. Artificial intelligence has been improving and adapting in recent years and this has brought up many questions as regards how smart and advanced it can become as well as what it is capable of. Some scientific obstacles that might come with the integration of Artificial Intelligence in healthcare might include finding and manufacturing suitable equipment that is safe and accessible, determining how advanced the AI should be, and whether or not to allow the artificial intelligence access to new medicines and procedures that are more recent and/or dangerous. However, if the necessary precautions are taken and decisions are made in an orderly fashion, Artificial intelligence can make a lasting impact on human healthcare.

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