Artificial Intelligence in Healthcare Clinical Decision Making: A Review

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Abstract

Artificial intelligence (AI) has been a rapidly growing technology which provides many utilities to bridge vast and various problems and gaps in many fields through important means. The healthcare industry is a more risk-taking, rewarding, complicated field with more challenges growing significantly with each passing moment. In this review research, the usage of artificial intelligence in healthcare clinical decision making have been researched and discussed through previous work on the field. In this review few of the existing works on using natural language processing chatbots and classification models in the field have been discussed with their contribution to the healthcare functionalities. Then the advantages and the limitations and challenges in using such AI tools in the healthcare decision making have been discussed. Reviewing further, the insights of trust and reliability in using AI enhanced applications in the healthcare industry have been also considered. Furthermore, in this review it concludes that it is better to use artificial intelligence tools in the clinical decision-making process in healthcare industry, concurrently and collaboratively with human practitioners rather than encouraging to follow a result solely based on the artificial intelligence systems.

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