Artificial Intelligence: Role in Pharmacy and Medicine

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Abstract

The future of 'standard' medical practice may be here sooner than expected, where a patient could see a computer before seeing a doctor. Thanks to Artificial Intelligence (AI), it appears possible for the days of misdiagnosis and treating disease symptoms rather than their root cause to move behind us. Artificial intelligence (AI) is a broad term that refers to the theory and development of computer systems that can perform the task that would normally require human insight, such as perception, comprehension, reasoning, learning, planning, and problem solving. Understanding methodology used in AI can help you communicate more effectively with data scientists to work together to design models that will help optimize and improve patient care. The healthcare and pharmaceutical industries have long been early adopters of technological developments, reaping major benefits. As a result, AI is being applied in a range of health-related sectors, including the discovery of novel medications, the invention of new medical treatments, and the management of patient data and records.

Advances in computational power paired with massive amounts of data generated in healthcare systems make many clinical problems ripe for AI applications. This review identifies and examines the fundamentals and applications of artificial intelligence in pharmacy and medicine.