

## Artificial Intelligence in Healthcare - A Review

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### ABSTRACT

Advances in artificial intelligence (AI), and its subfield machine learning (ML), can be seen in almost every domain of life, including cutting-edge health research. Organizations from health care of different sizes, types and different specialties are now a days more interested in how artificial intelligence has evolved and is helping patient needs and their care, also reducing costs, and increasing efficiency. Artificial intelligence (AI) is a rapidly evolving field in medicine, especially cardiology and brain science, is revolutionizing risk prediction and stratification, diagnostics, precision medicine, workflows, and efficiency. This study explores the implications of AI on healthcare management, and challenges involved with using AI in healthcare along with the review of several research papers that used AI models in different sectors of healthcare like Dermatology, Radiology, drug Interactions, and Discovery etc. Artificial intelligence is not just a technology, it is a collection of technologies. Some among these technologies are widely used in healthcare.

**Keywords :** Artificial Intelligence (AI), Healthcare, Brain Science, Cardiac surgical procedures, Health Information Systems.

## I. INTRODUCTION

The term artificial intelligence (AI) has a range of meanings, from specific forms of AI, such as machine learning, to the more far-fetched idea of AI that meets criteria for consciousness and sentience.

As technology advances and the use of Artificial Intelligence (AI) technology is adopted in various fields, there are increasing efforts to develop AI technology for healthcare applications. Within the class of AI technology, Machine Learning (ML) systems are being developed that draw from statistics,

mathematics, rule-based systems and biological systems to create solutions that can adapt and learn, thus reducing manual burden. Private companies are building ML into medical decision-making, pursuing tools that support physicians. It is predicted by physician researchers that by familiarity with ML tools that analyze big data will be a fundamental competency for the next generation of physicians, which improves care in areas such as radiology and anatomical pathology.

Millions of dollars are being invested in AI, most implementations are still proofs of concept.

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