



# Five Ways Artificial Intelligence Will Impact Healthcare

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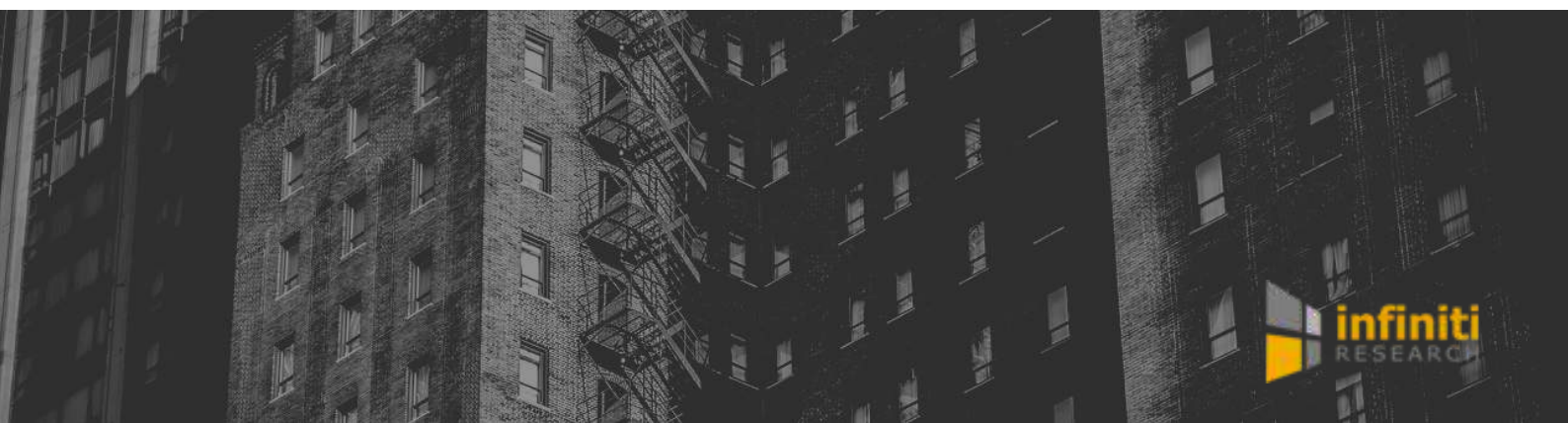
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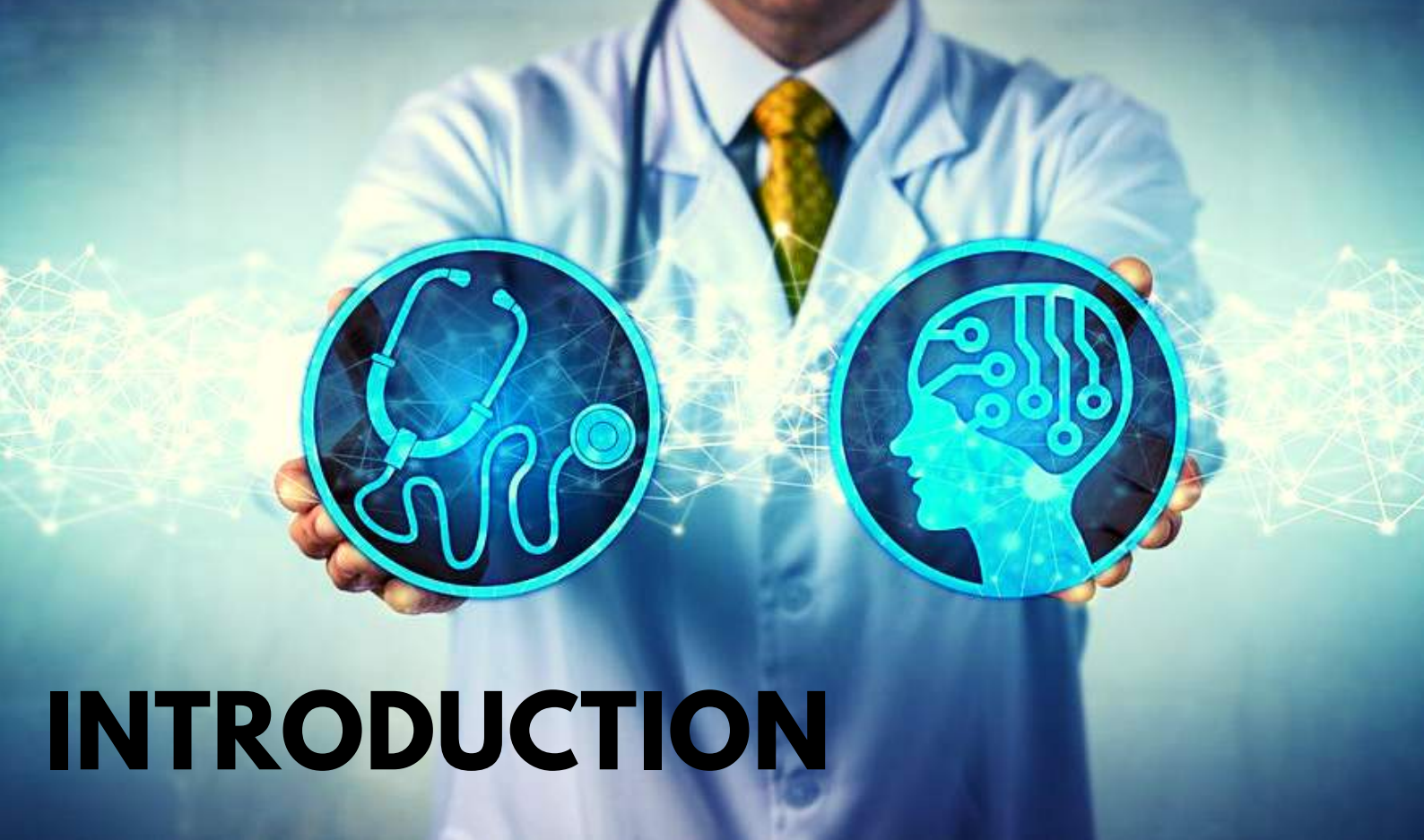
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# INTRODUCTION

Advanced and promising technologies are determined to improve healthcare outcomes. From chronic diseases including cancer to risk assessment and radiology, there are nearly endless opportunities to leverage advancements such as artificial intelligence (AI) to deploy more precise, efficient, and impactful interventions at the right stages of patient care. AI technology offers a wide range of advantages over traditional clinical-decision making and analytics techniques. Here, healthcare professionals can gain unprecedented insights into treatment variability, diagnostics, and patient outcomes with the help of algorithms which are more precise and accurate. Healthcare industry experts at Infiniti Research have highlighted five applications of artificial intelligence in healthcare and how this technology will impact healthcare and patient outcomes:

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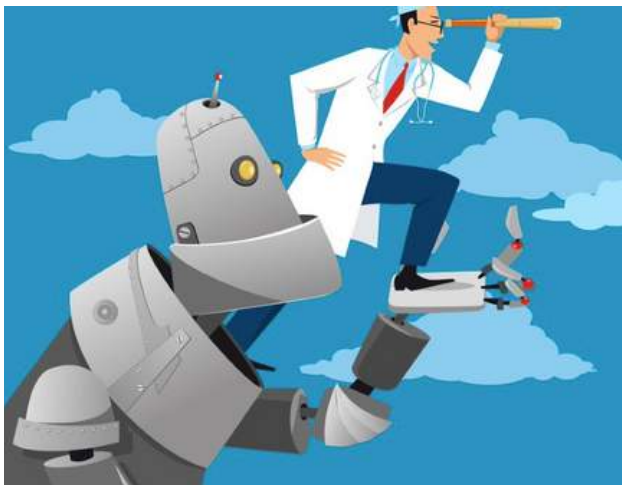






### **AI assisted robotic surgery**

Surgical robots can analyze data from past medical records and guide a surgeon's instrument during a surgery. As a matter of fact, robotic surgery is "minimally invasive" meaning the wound will heal faster and are less painful as compared to the traditional large incisions. The 'Da Vinci' is known to be the most precise surgical robot that guarantees five times fewer complications and gives surgeons greater control in the surgical process.



### **Clinical judgement and diagnosis**

Using AI technology to diagnose patients is still in its early stages of testing, however there has been some exciting developments. Recently, an AI algorithm was tested by Stanford University to detect skin cancers against dermatologists. Another breakthrough research has been done by Baidu Research that claimed that their deep learning algorithm can outperform humans in identifying breast cancer metastasis.

### **Virtual nursing assistants**

Virtual nursing assistant could save the healthcare industry billions annually. They can be used to interact with patients and direct them to the most effective care setting. Moreover, virtual nurses are available 24/7 and they can monitor patients and provide quick answers to their queries. These systems provide for regular communication between patients and care providers and also prevent unnecessary hospital visits and re-admissions.

**AI tools can support human providers to provide faster service, diagnose issues and analyze data to identify trends or genetic information that would predispose someone to a particular disease.**



## **Drug research and discovery**

One of the most recent applications of artificial intelligence in healthcare is for drug research and discovery. This technology is highly useful in streamlining the drug discovery and drug repurposing processes whereby both the time to market and costs of new drugs can be reduced.

## **Reducing burden of EHR**

Electronic health records (EHRs) played an instrumental role in the healthcare industry's journey towards digitalization. However, the switch has brought myriad problems associated with cognitive overload, endless documentation, and user burnout. EHR developers are now using artificial intelligence to create more intuitive interfaces and automate some of the routine processes that consume so much of a user's time. Voice recognition and dictation are helping to improve the clinical documentation process, but natural language processing (NLP) tools might not be going far enough.

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