

## How can Artificial Intelligence help healthcare industry & hospitals?

Due to increasingly getting sophisticated at doing what humans used to do but comparatively more quickly, efficiently, and at a lower cost, Artificial Intelligence (AI) is undoubtedly reverberating across almost every industry. However, in the healthcare sector, its impact promises to be life-changing. From hospital care to drug development, clinical research, and insurance, AI is revolutionizing the ways the healthcare industry works to improve patient care and process efficiencies while reducing spending.

### What is Artificial Intelligence?

On hearing the term Artificial Intelligence or AI, many of us imagine robots doing our works. Since AI-driven computers are programmed to perform tasks by making decisions with no or little human intervention, people wonder if such gadgets can make difficult decisions. In the current context, AI means the simulation of humans by machines, which acquire information, process it, reach a reasonable conclusion, and adapt themselves to situations. AI leverages several technologies, such as machine learning, vision, robots, autonomous machines, etc.

### How AI helps the healthcare sector and hospitals?

Assuredly, some healthcare organizations have already started moving towards AI, but the majority of hospitals, clinics, etc., are still striving to comprehend how it will be helpful for them. Here are the ways AI can help the healthcare industry and make a mark in the future.

1. With leveraging vision and deep learning on sensor-based data, physicians can better diagnose ailments. AI can take medical imaging to new levels, where it will be easy to diagnose, and even predict diseases. In regards to ECG and cardio as well, AI can assist physicians in carrying out an accurate diagnosis.
2. Lack of post-operative care has been a grave concern and leads to wastage of millions. AI can help care providers to deal with such situations by enabling them to take extra precautions.
3. Considering the patient's case and needed procedures, AI can aid doctors to plan surgery with accurate measurements. By tracking vital data, it can assist surgeons during surgery and to better understand the surgery outcomes.

4. Using NLP (Natural Language Processing) and vision, AI can bestow the pharmacists to effectually comprehend the pharmacy correlations with drugs, food, allergy, etc. AI integrated with EHR (Electronic Health Record) systems can benefit physicians with transcripts and voice-assisted case management in the best-of-the-best possible manner.
5. Virtual health assistants that refer to the tools like Chabot or smart speakers seem helpful in answering the health-related queries, monitor symptoms, and make appointments.
6. AI appears valuable for hospitals in more efficient emergency management and planning of procedures.
7. In the area of telemedicine, AI technology can bring wonders by facilitating precise remote monitoring and predictive diagnosis, thus leading to affordable and effective remote health management.

The AI adoption in healthcare is undoubtedly helpful and beneficial but can be slow due to some challenges like:

1. The reduction of the human element raises an ethical concern as who will take the liability for a negative impact.
2. As regulation and compliance will govern the treatment processes, they will be must for the adoption of AI.
3. Initial adoption, both by doctors and patients, will generate hiccups related to faith as the confidence of present people in such systems, hasn't built yet.
4. Lack of essential skillsets is also a remarkable challenge that acts as a barrier for the healthcare industry in adopting AI.

It is a bit challenging for the healthcare sector to adopt AI and prove its worth. But, in an industry where there is a lack of adept workers to manage people's health, AI can do wonders in the coming times.