
Top Technologies That Will Disrupt Healthcare industry in 2020

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As we know how new technology in the medical field is benefiting the sector of digital health. Although Healthcare has traditionally been slow to adopt new technologies. As the industry is about to witness significant changes over the next several years.

Technology in healthcare today is focused on accelerating the use of Machine Learning, AR/VR, Blockchain, Voice technology, etc. Moreover, the health industry is consuming IT services of healthcare IT solutions to meet growing demand. It is efficiently operating to deliver better patient care.

In the article, we will discuss top technologies that will disrupt healthcare by 2020.

1. IoMT

The Internet of Medical Things (IoMT) is the collection of medical devices and applications that connect to healthcare Information Technology systems through an online internet connection. It can decrease excessive hospital visits and the burden on health care systems. It is operated by connecting patients to their doctors and permitting the transfer of medical reports/data over a secure network.



By 2017, nearly 65% of operations in the healthcare field had adopted IoT or IoMT systems, according to Frost & Sullivan. This trend has given rise to improvements and is expected to be deployed by 2020. In 2021, the market for IoT devices in healthcare is expected to reach more than \$130 billion.

IoMT includes various devices like ECG monitors, fitness trackers, smart sensors measuring pressure, heart rate, pulse, glucose level. It also has mobile healthcare apps and other services that are connected with the internet.

2. Blockchain

Blockchain technology is rapidly transforming the healthcare industry by placing the patient at the centre of the ecosystem.

Systems that permit the sharing of digital medical records among numerous providers have dramatically improved the continuity, efficiency, and outcomes of patient care. Nevertheless, given the private nature of medical records, security is always a concern.



Blockchain technology has the ability to offer both the security essential to ease privacy concerns and the efficiency necessary to improve patient care.

Here are some advanced use cases that are being disruptive.

- **Identity Management**

[Blockchain](#) technology is reliable for healthcare technologies and is widely used across different industries including healthcare. It ensures no centralized database is compromised and that no information falls in the wrong hands. Identity is important to almost every blockchain use case in healthcare, inclusive of identity management of individual's e.g. patient, provider, etc. exclusive identifiers for medical devices in the health supply chain, or organizational contributors in a network.

- **Financials, Health Insurance & Records**

Blockchain has tremendous potential to decrease the number of frauds, eliminate chargebacks and produce new ways to manage health insurance and fund medical services. The less money is wasted, and the more profitable businesses become — the better the system will be for patients and taxpayers worldwide.



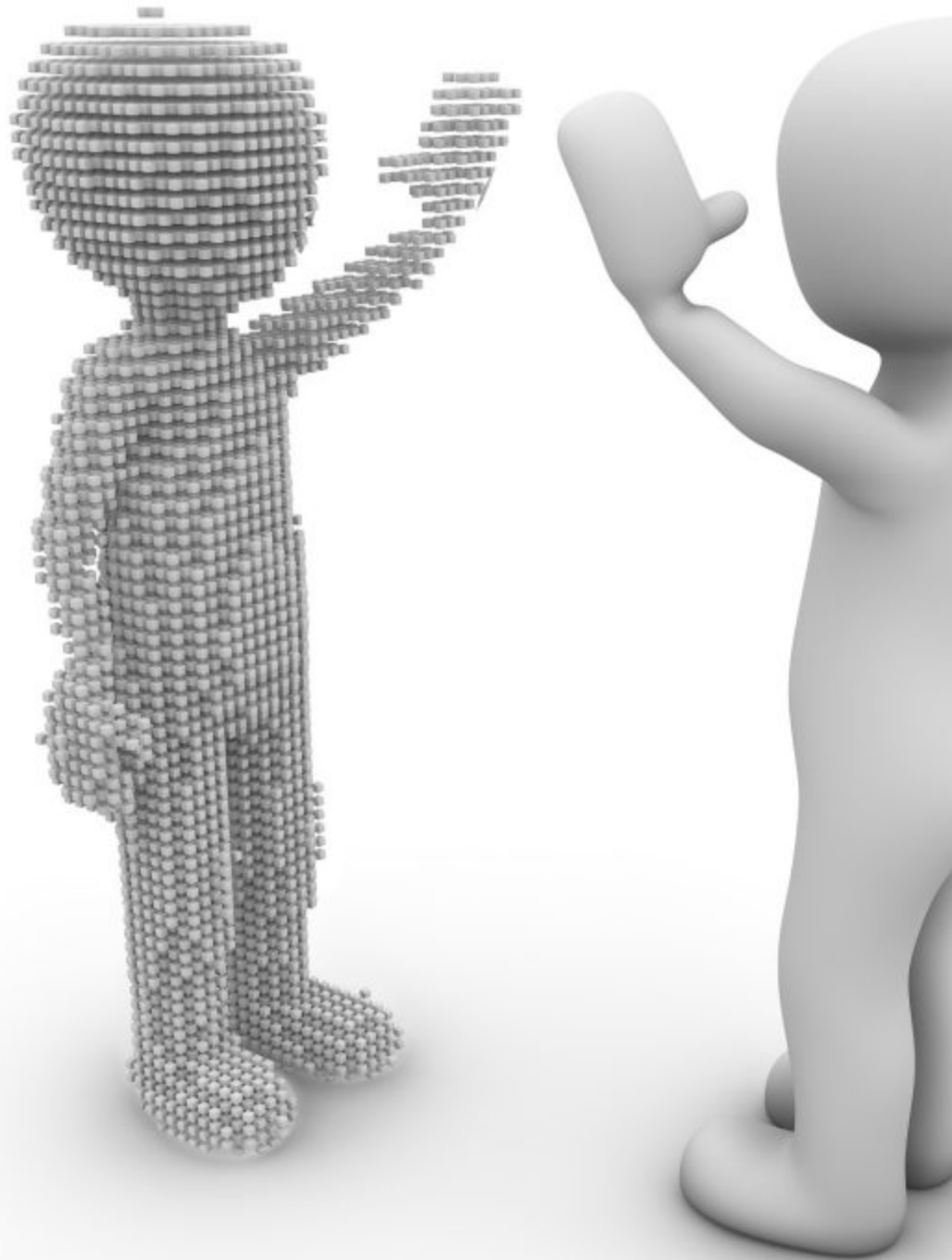
Often the complexity of the health care system turns into financial mismanagement and errors. Millions of dollars are spent each year on understanding which patient received what treatment from which department and by whose authority. Blockchain can reduce financial errors to a minimum.

- **Supply chain management**
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Product supplies, from initial inception to end-of-life, is the most prevalent use case for DLT across industries. In healthcare, clinical materials, blood products, and medical devices are where blockchain is being leveraged for operations, agreement, and predicting among pharmaceutical producers, blood banks, providers, pharmacies, and payers.

3. AR/VR

The application of augmented reality in healthcare technologies is opening up new prospects in the industry. A market research and consulting company based in the U.S, states that the global healthcare market for VR and AR is predicted to grow to a projected \$5.1 billion by 2023. VR and AR smart devices are also already proving to be cheaper and more accessible in treating, curing and advancing the understanding of illnesses, conditions, and diseases compared to other treatments and technologies.



AR can also bring huge value to practising medicine and education by allowing students and trainee physicians to better visualize health issues and scenarios that they one day will be treating. The benefit that AR can bring to the healthcare industry can be groundbreaking and we are just witnessing the beginning of what is to come from AR in the field of medicine.

4. Voice Technology

Voice technology is set to reach billions of people. But here the question is how it will impact human lives?

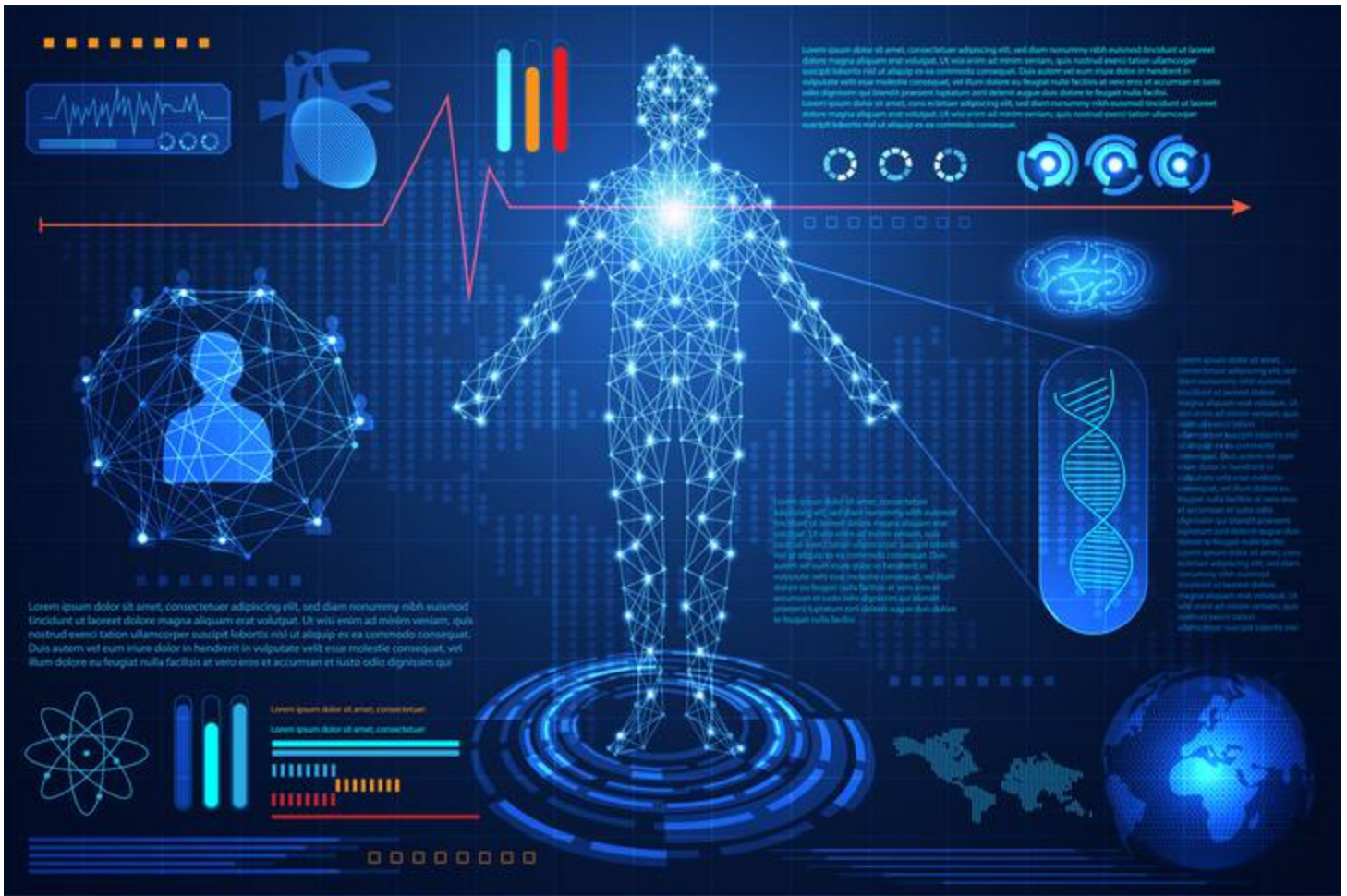
As per the latest research, 20% of technology is operated by Voice. From 2020 more than 50% of devices will use voice technology. Let's take a deep look:

- 43% of the companies already invested in technology to enable voice search for marketing purposes.
- 25% of internet users prefer to search on the
- Voice Assistant is more comfortable to use as compared to the website.

Voice is going to reshape your entire industry or simply it will become an expected mode of interaction with your customer or brand, it's important to consider testing this now to compete with the world.

5. Machine Learning

With the evolution of industry 4.0, machine learning now is not like machine learning was in the past. It was born from pattern recognition and the concept that computers can learn easily without any program to perform any task; researchers are now working in artificial intelligence to make computers able to learn from the data and act accordingly.



Machine learning has the ability to improve health care and there is no doubt. We have developed such applications that can imagine and predict from the previous data.

It's a myth now a day's Machine learning is going to replace the doctors. A doctor has 5 to 10 years' experience or maybe 20 year's but when we compare with the machine learning it has the ability to store 1000's year experience and then predict for the best possible solution for the patient. This is machine learning and let's see how much it could change human life.

6. Wearable Technology

Wearable technology is a category of electronic devices that can be worn as accessories, could be implemented in the user's body, has the ability to be embedded in the human body and even can be tattooed in the human skin.

This technology is actually hands-free gadgets that are implemented by a human or user. It works on the base of microprocessors and has the ability to send and receive the data through the internet.

In contrast, if we talk about the role of wearable technology then we are now able to say that these wearable devices are the future of healthcare. From the past few years, we have seen a huge attraction to this technology. It's largely due to advance in the IoT.

It requires sensors and open-source APIs, framework and libraries that enable fast and cost-effective software product development.

7. Telemedicine

Telemedicine is a technology that allows health care professionals to evaluate, diagnose and treat patients from a large distance. It is achieved by using telecommunication technology. This technology was adapted a few years back but now it is increasingly becoming part of health care.

- **No need to move from your place**

Well, it's clear that when you are ill and you probably don't want to move from your place in the middle of the dark night. But you need medication to get rid of your illness. Now you can use this technology from your home and can get the right medicine at your door.

- **Cost-effective and saves time**

Using this technology you can save your time and money as well. When you go to the doctor you have to wait for your turn and a lot of your time got waste in this scenario. Using telemedicine you can get the right mediation for you at less money and by saving your time.

- **Access to specialists**

This platform provides you with the access toward the specialist from every corner of the world. You can get the best advice at your door using telemedicine.

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