ASSIGNMENT

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On

EMERGING TECHNOLOGY IN HEALTHCARE

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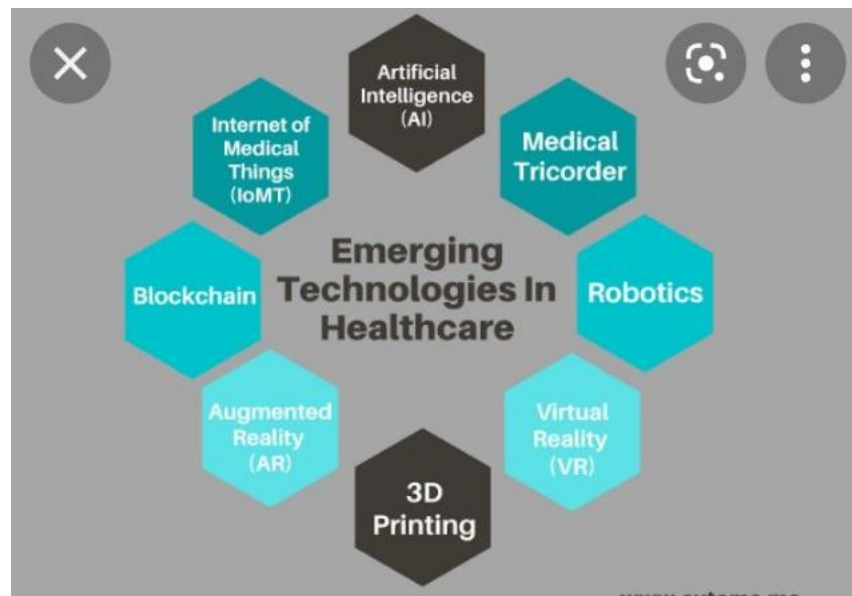NATIONAL INSTITUTE OF TECHNOLOGY RAIPUR

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Contents

1 Introduction

Emerging technology is emerging or involving of a new technology and also a continuous developing of a thing which are already exist in era. In these section we will discuss about some emerging technologies and how it helps in healthcare.

As we know necessity of anything is reason of invention.Since involving of emerging technologies in healthcare is a because of necessity. Emerging technologies plays a very important role in present as well as in future healthcare.

2 Requirement Fulfill By Emerging Technology

- Give relief from overcrowding hospitals. - As during COVID pandemic people suffered lack of doctors - Emerging technology make healthcare affordable, feasible,and accessible .

Now let's stude about some emerging technologies——

3 Artificial Intelligence

Any machine that shows intelligence is artificial intelligence.AI make hospital to more efficient and improve access to healthcare by providing accurate decision making tools . AI is process of educating a computing model using complex and large datasets,the models lears from this data in a training process to build the ability to make decisions or predict outcome.AI models helping our doctor learn f[rom patient with similar condition or even similar genetic information and make highly informed decision about their diagnosis and their treatment options. AI provide much more ability to understanding of human health then we haved ever had before.

4 Blockchain

A Blockchain is a chain of block which contains information. This technique was originally described to create a digital crytocurrency bitocoin.A Blockchain is distributed ledger that is completed open to anyone with an interesting property then
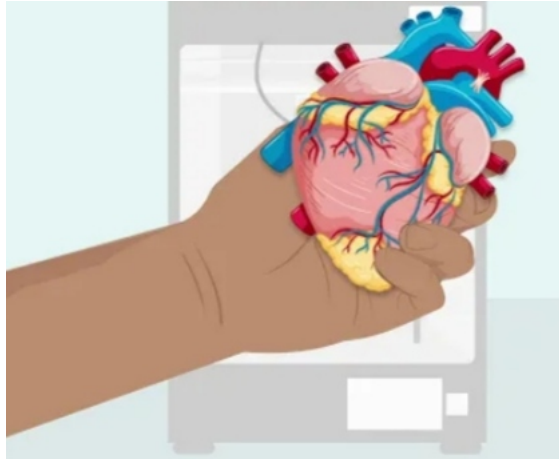
one data is recorded inside a Blockchain is become permanent and can't be altered the immutability property of Blockchain align very strongly with requirement to stored the healthcare record. One most applications of Blockchain in healthcare is decentralisation which makes feasible to implement healthcare application.Data in the Blockchain is replicated between all the nodes in network. It make easy to patient to understand how their data is handled.It provide security of record patient healthcare . Blockchain technology has potential to address interprobability challenges by being utilised as common technical standards to securely distimulate electronic healthcare.

5   3D-Printing

The visualization of anything in computer is digital but 3D-Printing make its physical appearance. 3D- printing make we feel that it will be on our hand . It make more feasible to medical student to study and visualize it.

6   Augmented Reality

Augmented reality combining with AI and computing it prevent ,manage and cure billion of people. Start or incites has analyzed the geographic distribution of global activity in healthcare. It is powerfool tool are being developed with potential to real-life discuss detection, diagnosis and treatment detecting cancer through image recognition can help doctor in

patients diagnosis with real time screening analysis. Using the device based on AR surgeons able to visualize bone,muscule and internal organ without having to cut,open a body.

7 Robotics

In healthcare robotics is just a type of alrounder.It helps in healthcare in several ways. Some of these are——-

- It makes patient stressfeel by its funny activity . - It support staff in patients health monitoring. - It helps at reception in COVID vaccination centre. - Inform about safter regulation. - It helps people to keep patient close to thir familiar through telepresence.

8 Conclusion

In these section we had studied about some emerging technologies which plays role in healthcare.We had to give more effort on emerging technology for providing feasible, accessible,and affordable healthcare. We need to be really brave now when imaging the future and have to work hard to fulfil these goals.We need to make sure that the future of healthcare is based on human touch and on the partnership of the patients and their care givers and is based on technology that can be given us the absolute best success rate the best treatment and skills the best care when it comes to people.

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