ASSIGNMENT

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On

EMERGING TECHNOLOGY IN HEALTHCARE

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1 INTRODUCTION

we really need to do research on advance technology for making more successful operation,easily accesible and become cheaper. Some technology very useful in future and also in present. It is also improve day by day for better result. example :- Artificial Intelligence (AI) , Telemedicine,Extended Reaality in healthcare etc. All above technology is backbone of healthcare system .

2 ARTIFICIAL INTELLIGENCE(AI)

Across the multiple industries artificial intelligence has made great waves as a useful technology in 2022 specially for healthcare

2.1 AI'S ROLES AGAINST COVID-19

AI is a very helpful in global pandemic covid-19 it's analyze graph of covid patient in future, serve more work and efficiently compaire to doctor,nurses.

A great deal of progress was also made with machine learning in the development of vaccine,research on corona viruse to predict protien behaviour,and symptoms.

It is also been helpful in analyzing crowd temperature data. This is fast way to make thermal screening a much more viable option symptomatic patient.

2.2 AI IN MENTAL HEALTH

Artificial intelligence innovation do not just apply to physical health .by using an AI model they were able to analyze thousands of online reddit message to find that topics of suicidality and loneliness had nearly doubled over a period of time .This has the potential to transform our understanding of the mental health of lager populations .

2.3 AI'S IN HEALTHCARE: DATA

The most important element that powers artificial intelligence success in healthcare is data. More specific software powered by machine learning will never outperm the quality of it trainning dataset.

2.4 AI'S IN DIAGNOSIS AND DRUG DEVELOPMENT

Artificial intelligence has much more applications outside of treating to the pandemic .AI is wonderful helpful for improving efficincy with information proccesing and decision making . In the healthcare industry machine learning is extremely helpful for the development of new pharamaceuticals and the efficiency of diagnosis process.

3 TELEMEDICINE ADN REMOTE CARE

Telehealth has come a long way since the benginning of pandemic in 2020.Telemedicine or telehealth is successful to minimize distance between patient and doctor,and also helpfull for quick response,interaction by doctor from anywhere.Doctor no need to meet patient really while doctor arrange a web confrence to help patient. Telemedicine is most successfull in future because we have better camera,internet connection,good connectivity ,iow medicine crises in village area.This technology is more helpful in village area.There is no hospital near the village and not avaiable in mergency cases.

4 EXTENDED REALITY

Extended reality is a blanket term which include all of virtual reality , augmented reality and mixed reality has a great deal of potential of reality in the healthcre industry .AR and VR can improve the healthcare day by day ./

4.1 AUGMENTED REALITY AND VIRTUAL REALITY IN HEALTHCARE

Augmented reality and virtual reality are very useful setting in healthcare system . One of the most popular and useful forms of this technology is the use of mixed reality .Headset like microsoft holo lense to by surgeons .The headset can provide head up information to the surgeon while allowing them to use there hands during procedure.

not only can these surgery be enriched by this heads up informations but in can be a collaborative and remote effort and assist intraining purposes.

AR is not just resticted to head sets. and operating room,The technology can also to help nurse find veins to below from.

Augmented reality development relies heavily. upon artificial intelligence heavily. upon artificial intelligence and specialized sensors to function.Whether you are developing for mobile devises or other kinds of hardware AR developers focus heavily. upon levelopers ATwitgh the software formeworks of target hardware to make these products. successfull.

4.2 METAVERSE:FUTURE OR HYPE

One of the most useful applications of VR in healthcare thate is in use right now is training. creating virtual trainning.situations for doctors can help them improve their skill prepare for operations.