Phone No: 08452-295537



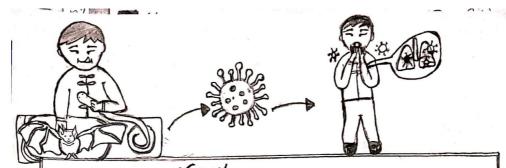
## GOVT. DEGREE COLLEGE, MEDAK

(ID-College)

Re-accredited with 'B' Grade (CGPA-2.44) by NAAC Principal: Dr.P.V.Narasimham, M.A., Ph.D.

## **ESBS - ACTION REPORT**

Students were asked to write essays / poems / stories related to "Corona Virus" of their choice on 24.04.2020.

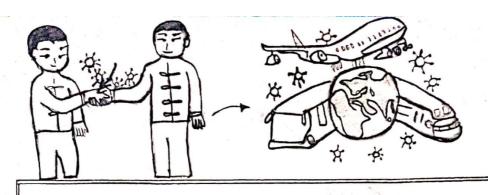


क्रिक्यम्बर्ध क्षान् के क्षेत्र के क्षेत्र के क्षेत्र के क्षेत्र के कि के कि कि

కర్కిస్తుక్క యెంథా వ్రధిని ర్జాప్కిద్దిగాగా నిస్మేక్స్ట్రాం నియాస్థిం మిట్తి ఆధిక్షెల్లేం ఇన్ యెస్త్యించాంతి గ్రాభించాం నింత్షిగ్ ఈకిర్పై ట్రాక్బొంటా ఈ భాయ్షిభామీ శర్మిస్తు ద్రాలక్షి మ్మహిత్స్ ద్రాఖ్య చ్రోస్తు

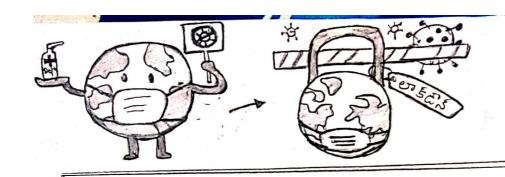
చైనాలోనే ఈ కరోనా పుట్టిందని నిమ్మాయిగా తెలిసింది తాకుంటుతేట టిందుగాతాల చెల్ల సొంధీక దూరం లోనెందున ఓకరి నుండి ఓకరికి సొకింది ఈ కర్యానా అస్పుఆపాలయ్మేల -చేసింది ఈ మహమానిరి కర్సానా.

ಮೊರಣ್ಣ ಪ್ರಭಾವಿ ಭಾರ್ಣ ಪ್ರವು ಪ್ರಮುಖ್ಯ ಪ್ರಾಣ್ಯಾಯ ( ಪ್ರಪ್ರಾಣ್ಯ ಶ್ರಾಣ್ಯ ಪ್ರವಾಭ್ಯ ಪ್ರವು ಪ್ರವಾಭ್ಯ ಪ್ರವಾಭ ಪ್ರವಾ



తైరచారా మాస్తాలను పరిసర్ దూరతాలలో శుబాంచేసుకుంటే సామాజిక దూరానిన పాటిస్తే బయటకి ఏళ్ళినప్పుడు మాస్కలను ఉంస్తే కరోనాకి కెట్టడి చెనినెవి ఈ మూడు నూడాలే.

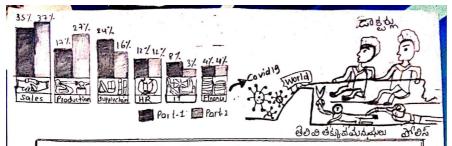
ಹುಸಲ್ಟು ಹುಣ್ಣ ಕ್ಷಾದು ಈ ಪ್ರಸಂ-ಸಂಪ್ -ಸ್ಮಾಗಾಂಡಿ.



బనసమూమాం ఎక్కువ ఉండటం పల్ల కరోనా స్వోక్ తుందని మన యధానమంతి అయేలులోకి తె-ల్పూరు లాక్ ఔస్ ను మికు నేల్పునీ అంధిమానికి బగ్బాస్ మైటిల్ గెలవాలని బోట్లు వోసారుగా అటుచెంటితి అగ్బూస్ హౌస్ లాంటి లాక్ఔస్ ను మీ ఉాణాంక్లోనం ధాట్లోనే గదపలిగా.

చిస్తుంతి. మంగ్రాన్ల ఇద్ద్ అమాత్రం అమ్మలయులుక్కు కాలుత్తులు ప్రభాత్వంతి మంగ్రాన్ల ఆగ్రాల్స్ అడ్డాత్క్ లు చాడాత్వులు మెల్లాలు ల్విల్స్ అడ్డాను సిల్బేతాయి మంగ్రాన్ల కాల్ స్ట్రాల్లో అమ్మలు సిల్బులుక్కు కాలుత్తులు ప్రత్యాత్వంతు మాట్లాలుకు కాల్లాలు ప్రభాత్వంతి.

లాక్ట్ వేల్లా ఆల్థకట్లో వస్తులుగా పెబ్బతిన్నటి దేంగ్ మాళ్లు, సనిమా హాళ్లను అనిశి రాష్ట్రాలో మూనుకపోయాయి దేవాలయాలను కూడా మూసపోసారు అర్థం -చేసుకోండి మనం ఏంత కెట్క చలస్థతి లో ఉన్నుమని.



ద్యి మ్యాల్స్ ప్రార్టులు ప్రార్ట్ మాల్లు ప్రార్ట్ మాలు అత్స్ట్ ప్రార్టులు ప్రార్ట్ మాలులను తెలిలుకొట్టాయి. ప్రైవే స్ట్రాన్లు ఎన్ని మెండ్స్ మాలులను తెలిలుకొట్టాయి. మాలు అత్స్ ప్రార్టులు ప్రార్ట్ మాల్లు ప్రార్ట్ ప్రార్ట్

అందారం బ్రాబాయి భాస్త్ర కర్కువాను త్రితిని చామ్ముడు. అభ్యాణ్యమ్మంకు మ్యాత్రులు అందు అందు కార్గాత్తు - కు్గు అయ్యం మాట్న కర్కకుల అందు అందు కార్గాత్తు - కు్గు - కు్గు కార్గాత్తులు చేస్తుందు.

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DATA SCIENCES FOR FIGHT AGAINST COVID-19

## INTRODUCTION:

Potelligence in machines that are programmed to think like humans and mimic their actions. The AI may also be applied to any machine that exhibits traits associated with a human mind such as tearning and problem solving.

The ideal characteristic of artificial intelligence is its ability to rationalize and take actions that have best chance of achieving specific goal.

How Artificial Intelligence is helping in fight against

Using china as a Case study, china Success with Using Artificial intelligence as a Crisis mangement tool and demonstrated its utility. Advancement in Artificial intelligence such as Natural language processing, speech recognition. Data analytics, Machine learning, Deep learning and other such of Chatbots and Facial recognition have not only been utilized for diagnosis but also for contact tracing and vaccine development. AI has no doubt aided the control of the Covid-19 pandemic and help to curb its Morst effects.

Artificial Intelligence has been deployed in Several ways so far, and following are ways in which AI has been applied as measure to slove the problems of pandemic. Covid-19

(1) Disease Surveillance Artificial Intelligence: 1

spread of virus all around world.

anguage processing capabilities bealth care agent

So, essentially AI can find pattern in these data Source and can help provide insights into emerging infectious disease like the dominate covid-19. The biggest platform that are currently tracking covid-19 are \* John Hopkins Dashboard - Which monitor confirmed coses Vs recove \* Next strain-Which track how the virus spread and Most prominate is \* Blue Dot - Whom predicts infectious diseases among other. Focusing particularly on BlueDot. They are on AI based startup who built intelligent system about people to determine the likelihood of occurance of any disease. BlueDot predicted the SARS outbreak which turned into true. They also use Natural language processing CNLP), as tool to track disease from across globe analysing different human languages use the information through them with algorithms Technology. GIS Technology-Geographic information system is one important tool used in recognize and stopping spread of covid-19. This system has a data analytics Dash board that's all the cases studies of covid-19 across the world. In accordance with situation i preventive measures can be drawn with above All based analytics to track the spread of disease and stopping covid-ig, kaggle have Just announced that they have publish govid-19 open Reserch Dataset CCORD-19). CORD-19 is resource of over 29,000 Scholarly articals, including over 13,000 with full text research about covid-19 and SARS COV-2 and rela -ted corona Viruses. So, check that out if you would Like to belout doing out avois at avois on 2 VIRTUAL HEALTHCARE ASSISTANTS (CHATBOTS):= The notof covid-19 cases has shown that health care system and response measures can be overcohelmed. Canada based stallion, AI has leveraged its Natural language processing capabilities to build a Multi -Lingual Virtual health care agent

that can pensiver questions related to Covid-19. provide reliable information, Glear guidliness, recommed protec -tion measures, check and monitor the symptoms and advise individual whether they need self isolation or hospital Screening : 2 2 2 sounds bosons - boly pulled 1

3. DIAGNOSTIC AZ: - (Artifical Intelligence)

Immediate diagnosis means that responce measures Such as quarantine can employed quickly to curb further Spread of injection. Junchen Deep learning - based AI model for detecting novel corona virus pneumontaton high resolution computed Tomography also known as cTS cans. We are early mentioned that about the CT Scans, which are still most effi - client way for detecting and evaluting the Severity of pneumonia. AI assisted diagnosis could greatly reduce Radiologist work load by providing + farly diagnosis, + farly "solation , \* Reduced Virus spreading.

There is a dataset that has over 4600 crscan images from 106 patients, over 26000 from Covid-19 patients and over 20,000 image's from 55 control groups. They use Neural Newbork called Untet ++ . So, per potient it had an accuracy of 95.241. and per Pmage 98.85%. , while this is good. It is used to assist the radiologist and for gicker diagnosis. Inter vision and Alibaba are both using computer wision on CT seans images for corona disease diagosis.

-Alibaba- has also comeup with an AI system that capable of detecting comma virus in minimal time with accuracy Of 96%. For this system cohich trained in 5000 confirmed test data Reports says at least 100 healthcare sector departments will be emplying Alibaba Al system.

According to Nickels asian Review, Alibaba AI system claim it only takes 20 seconds time to detect coving-19. Reports says doctors take is minuted to diagnos is the filmess, there can be upward of 300 images evaluate.

Linking Med, released china's first open source Arti-ficial intelligence model for pneumonia cT scan images,
analysis. Ownered by Baidu's open Source deep learning
platform, paddle paddle. Linking Med has developed an
Platform, paddle paddle. Linking Med has developed an
Al. powered pneumonia screening and lesion decrecting
System. The System can pinpoint the disease in less than
one minute, with decreation accuracy of 92% and recall
rate of 94%, of test data sets.

pylmage search posted his blog how you can use x-ray image for dectection covid-19 with using Kerastensor flow and Deep learning. So, what we conclude from this that if think in fected its best to go for a CI Scan and AD speed up the process, thus, alleviating the stress on Doctors.

LE FACIAL RECOGNITION AND FEVER DETECTORS:

Artificial Intelligence thermal Cameras have been used for sometimes. Now, for dectecting people with fever the drawback to the technology is need for human operator. Now, however cameras possessing AI based Multisensory Lechnology have been deployed in airports, hospitals, nursing homes, etc. The Artificial Intelligence technology automatically detect the individual with fever and track Movement recognise their faces and whether person wearning a face mask or not. Infered cameras used to detect the fever like symptoms.

## 5. INTELLIGENT DRONES & ROBOTS ?

The public depolyment of drones and Robots has accederated due to the strick social distancing measures required to contain virus Spread. Several Chinese companies develop solution to fight the deadly spread of virus. The chinese government is using robots along with AI to Scan Surroundings and disinfectants in thospitals. The Thor-I robot looks like an artillery drone but his ammunication is disinfected liquid at Airports, Metrostations and Crowled places.

they are also patrolling robots and drones that use infrared cameras as a fever Screening system. If the detected person-temperature, is above normal, once identified, the drone elect ground staff to take Mea -sure to disperse the congregation. Robots also using to deliever food and Medicine to avoid human contact.

Shenzhen-based pudu technology who have installed it robots foir cattering in more than 40 hospitals in china. Forthis purpose another shinjang based company called "Microbe Multicopter", has supplies drones in order to transport medical samples and conduct thermal imaging for identifying human sangregation much more efficiently. For the disease control of Covid-19 is to quarantine infected people and promote social disease tancing is used in robots and drones that assist with partolling. Screening, compliance and carry out non-contact takes, vaccine and treatment. To ensure compliance, some drones are used to track individuals not using facemask in public.

6) CURATIVE RESEARCH AT : part of what has trobubled. The scientific community is absence of a definitive cure for the virus. Antificial Intelligence can potentially be a game changer for many companies for scientia CEO of prof. Andrew Hopiks Says that that AI can be used in three ways in current crisis. Hone to develop antibodies and vaccienes for covid-19 \* Scan through existing drug to see any repurposed \* Design drug of fight both the current and fucture e Corona out break about milloring oals AI could achieve the appeal of AI design drug is realtively straightforward. There are literally tons of possible molecules can useful in medication. Anti - ficial Intelligence a Computure System can stimulate the wide varity of molecules comparing them again Ist different parameters and synthesezing the most promising compounds faster than human could. If quantum computers are capable enough , then cures and vaccine could arrive quicker. Even before -ca virus can become a pandemica que of the execientia became the first company to put on AI design drug molecule to human trials earlier thes year. Instilicon Medicine is brotech start up focused on disease prevention. There are an analy -tics and AI centric company that are currently working on developing a solution that will frititle the Doctors about the Fighter molecule capable of inhibiting the covid-19. prize too alminishai

or Generative Adversarial Network to create molecules or Generative Adversarial Network to create molecules that binds to proteins. He further states that, "over the course of fourdays, his compay's AI algorithms created 10,0000 unique molecules which were narrowed down too and from those 100 scientists choose seven of those to synthesise. Reinforcement learning is then used to improve its conclusion and prediction through feed back loop by guiding molecules to specific objectives. As report by wall street Journal. Other biotech companies that are using Artificial Intelligence on molecular level offer biotechnology, like Xtalpiand Atom Wise Inc.

Michigan state university is using Machine learning for Newdrug candidates for possible treatment of covider. They started cor) stated that Sequence identity of covid-19 is 96% to SARS Cov. They also mentioned that they are in process of analysing the effective of lantisletro viral medication. Google Deep Mind Known mostly for its algorithms that beat human palyers at Go. DOTA: STAR Craft and other games, has been working directly on solution for drug discovery. Their Secreate Deapon is Alphafold, which is deep learning system that tries to predict protein structure accurately when no Such protein exist.

"Gilead sciences" in collaboration with Beijing hospitals, has already Started phase III, human testi -ng of an experimental antivitial drug called "remde -sivit" in whan,

Global health authorities deem it is most possible treatment for people who severely fill with N-covid-19.

The uncertainty of pandemic has knavoidably resulted in the propagation of myths on the social media platform. While no quantitative assessment has been done to evalute how it much misinformation is there already, it is ceretaily significant figure. The technology Gainsts like Googles face book are battling to combat the wave conspiracy theo ties, phising misinformation and malware. It is celared by using AI technology. Youtube on the Other hand, directly links users to the wHo and similar credible org anisation for information. Videos that missinform are scoured from and taken down as soon or uploaded. We will for the well-being of you and your family. Please follow only credible sources like world health organisation; the NHS and trusted organisation of well as public

health agencies. " par . voo 2202 of Jop 29 pl blyon

CONCLUSION :=

Novel Corona virus Ccovid-19) originated in china at what city in December 2019. According to world health organisation Report, 3,916,337 people infected by covid-19, in those people 1,343,054 people are recovered from Covid-19, and cause 2+0,711 deaths in all around the world in Span of five months from January 2020 to till date. Whorld health organisation announced the Covid-19 has pandemic in March 11,2020. Symptoms of these virus are pandemic in March 11,2020. Symptoms of these virus are tever, theadache, the doess, rapid heartheat, Shortness in breathing, Cough, cold, chest pain and etc., according World health organisation.

Due to covid-19 Global Economy is Slowdown, could be hit by its worst growth rate since 2009. In short span of time Covid-19 emerge of one of the biggest challanges to face 21st Century world. We considered the Covid-19 is a type of world war in current situation.

Artificial Intelligence plays crucial role in the Fight aga -inst covid-19. Artificial Intelligence is key to solve the problems of covid-19. With using AI, we can stop the spreading of covid-19 and Detect the Covid-19 in short time. In Fucture also, we can control the these types of pande -mics, with using Artificial Intelligence, the use of AI for the prevention of new crisis should not be travelised.

I hope all are stay safe, during this period, hope fully it will pass soon, and we can go back to normal Mays of life. Make sure to Mash your throughly and practice Social distancing.

"Stay Safe, Stay Home".