



## Design and development of protagonist of artificial intelligence in borough segment

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### Abstract

This Artificial Intelligence (AI) assumes a critical part in particular fields to tackle the perplexing issues. The computerized specialized field is expanding step by step on the planet and it makes an inward piece of our life. Consequently, the information on arising innovation is must for making our life simple. Nonetheless, there are some significant regions which are making the issues to human, for example, horticulture field that contains crop infections, absence of capacity the board, pesticide control and so forth these issues can be settled by man-made brainpower, IOT, AI and profound learning. Subsequently, the point of this paper is to talk about the job of man-made consciousness to settle various issues of particular areas (clinical, designing, agribusiness, business, safeguards and so forth) particularly in medication (COVID-19). At long last, future degree, difficulties and application area of man-made reasoning is additionally portrayed.

**Keywords:** applications, benefits, iot, future scope, challenges, and artificial intelligence (Ai)

### Introduction

An Artificial Intelligence (AI) is one of the arising advances in the unmistakable modern area. It is used for the preparing of visual data to emblematic thinking, task arranging, self-learning and perceiving activities, and so forth the gauging conduct has been made efficient, and quicker with presentation of unmistakable AI parts <sup>[1]</sup>. We need to surrender that modernized advances have adequately turned into an indoor a piece of our lifestyle. With the presence of development during this modernized world, our kin have extended our limit of the thinking cycle and endeavor to consolidate average frontal cortex with a man-made one. Information is composed with various mental limits, for instance, language, thought, organizing, memory, and insight. The improvement of information can basically be concentrated about in the latest ten years. Understanding incorporates both Human and Artificial Intelligence. Man-made intellectual prowess was brought into the world in close relationship with the leaders' science, became separated from it, and is as of now outlining new associations with it, similarly as with various controls that have gotten together in intellectual science. Various new advancements were brought into the world in this continually extending development field like Artificial Intelligence. Electronic thinking is a basic collaboration: with the help of which human can make a machine working like a human mind. Man-made insight has penetrated in life science, educational, responsibility, agribusiness, industry, security, and heaps of various regions. Execution of AI incorporates learning pattern of machines. Actually a consistently expanding number of different clever informative advancements are getting renowned. Man-made cognizance is that development committed to making machines smart, and information is that quality that enables a substance to work fittingly and with hunch in its present situation". According to report, the ability to use AI to help picking, reevaluate strategies and natural frameworks, and redo the customer experience will drive the consequence of

automated exercises through 2025". They moreover showed that 59% of affiliations are presumably going to execute AI procedures, similarly as others have viably made progress in coordinating or accepting AI game plans. That could be referred to different regions including tutoring <sup>[1]</sup>.

### Artificial intelligence

An Artificial Intelligence in software engineering, designing alludes to any human like insight given by a robot or PC or machine. The significant utilizations of AI allude to the capacity of a machine or PC to impersonate the abilities of the human brain gaining as a matter of fact and models, comprehension and reacting to language, deciding, critical thinking, and so on We, all in all will overall use an ordinary importance of mechanized thinking when we have some data about it. What is man-made intellectual ability? We call a program for a PC "misleadingly sharp" if it achieves something which, when done by an individual, will be thought to require human knowledge. We portray it with respect to the endeavors that are finished. We thought we were using our knowledge, yet nowadays, perhaps 90% of the effort of PCs is given to numerical examination and we don't consider that fake intelligence. AI is a gadget which like number juggling or, plus, like language, spreads through the whole society. Everybody needs to use this gadget and various people will be inventive in its use, not just people who lavish themselves to be specialists. Not all the composition in the world is done by master/educators of Chinese or English or of any normal language <sup>[2]</sup>. So we are in that difficult to miss position where a particular subset of the cunning things that PCs do are singled out and called man-made cognizance and the cutoff points are in reality exceptionally abstract. In the past 3 or 4 years-potentially fairly more than that, yet since the time that man-made intellectual prowess has begun to get a huge load of public thought-I have recognized a drawing together again of these fields. So dynamically again today, and I think it is a magnificent development, we are beginning to see man-

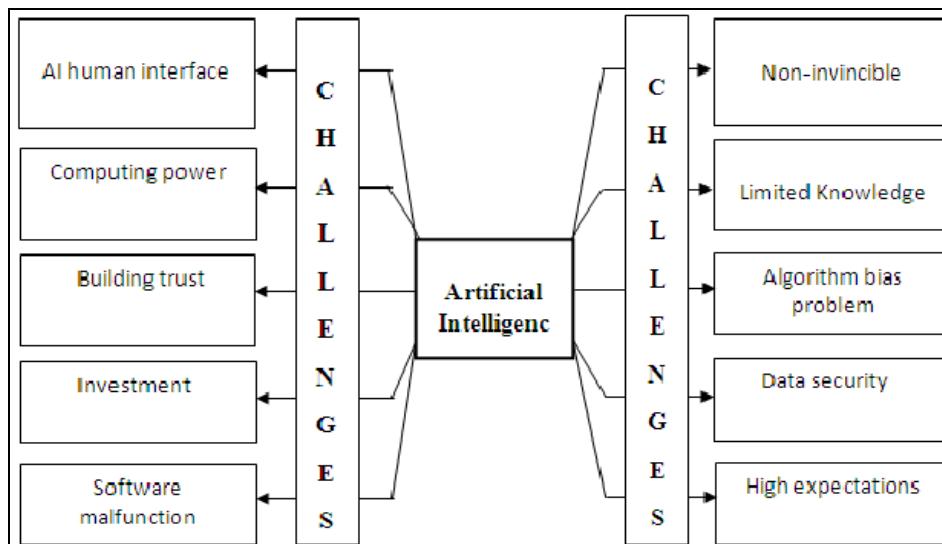
made thinking capacities being joined with customary organization science and exercises research capacities.

**Why AI is generally requiring?**

Man-made knowledge devices exist for a serious long time, notwithstanding, over the latest few years; its allotment has extended to a more critical level. There exist various reasons that depict the meaning of AI models and make them more lovable. These reasons are: [3].

- 1. Computation Authority and Price:** Consuming AI methodologies and estimations, the estimation power in business exercises can show up at a huge level. With a blend of the Internet of Things (IoT), AI makes an enormous volume of data that makes the AI more successful.
- 2. Stage of enormous datasets:** Consuming large information and its developments, colossal datasets are made. The more the data will be, the more useful the AI-model will be the piece of the open improvement in AI identifies with the basic induction to AI-based capacities and thinking. Hence, more people will take advantage of AI advancement and ll the opening between these developments and individuals. Individuals developing the AI-models are thinking

about the no fuss nuances, sending Neural associations and produce huge level models that gain capability with consistently and perform exercises exactly as expected. Other than wars, counterfeit knowledge is totally trusted and therefore being the powerful achievements in various organizations and use-cases, the human bombshell without a doubt adventures up ahead of time. The impact of counterfeit information on living spirits just as economy has been astonishing. Man-created cognizance can add about \$15.7 trillion to the world economy by 2030. To bring that into a view point that with regards to the united monetary yield of china and India beginning today. With various associations predicting that the usage of AL can uphold business proficiency by up to 40%, the enthusiastic extension in the amount of AL fire up has enhanced on numerous occasions starting around 2000 the utilization of AL can go from following space rocks and other boundless bodies in space to expect disorders on the planet, explore new and creative ways to deal with control mental mistreatment to make mechanical plans[4].In expansion, the significant difficulties in computerized reasoning are addressed in Figure 1.



**Fig 1:** Challenges of Artificial Intelligence

- 3. Calculating power:** The proportion of power these computations use is a factor that keeps various fashioners away from moving. Man-made intelligence and through and through learning are the venturing stones of this modernized thinking, and they require a creating nonappearance of controls and GPUs for ideal execution. There are various fields where we have the musings and data to utilize through and through learning structures like space rock following, prosperity sending, huge body following and extensively more. They need a PC enlisting power and to be sure, enormous PCs are sensible. Yet in view of the availability of circulated processing and equivalent getting ready systems they work in AL structures with unimaginable accomplishment incorporate some critical destruction.
- 4. Limited knowledge:** Disregarding the way that there are various spots in the market where we can use Artificial Intelligence as a better choice interestingly,

than customary systems. The certified issue is the information on Artificial Intelligence. Alongside development darlings, understudies, and subject matter experts, simply a little bundle of people know the power of AI. For example, there are various SMEs who can get their work composed or learn better ways to deal with foster their thing, manage resources, sell and regulate things on the web, learn and grasp buyers direct and respond to the market effectively and capably. They don't have even the remotest clue about any expert associations like Google Cloud, Amazon Web Services, and others in the advancement business.

- 5. Human level:** This is maybe the principle troubles for AI, which has kept researchers at the edge of AI organizations in associations and new organizations. These associations might display more than 90% precision; but people can further develop taking everything together of these conditions. For example, let our model anticipate whether the image is a canine

or a cat. One can anticipate the right yield regularly, killing a stunning accuracy of more than almost 100%. For a through and through learning model to play out a comparative task would require phenomenal financing, the use of a hyper boundary, a tremendous informational collection, and an inside and out portrayed and exact estimation, similarly as stunning PC power, constant planning in train data and test data testing. That appears to be like a lot of work, and it's in all actuality on different occasions harder than it sounds. One more way to deal with make an effort not to do all the troublesome work is to use an expert association, as they can get ready through and through learning models using pre-arranged models. They are ready in an immense number of photographs and are proficient with high precision, yet the real issue is that they continue to show flaws and will fight hard to show up at human execution.

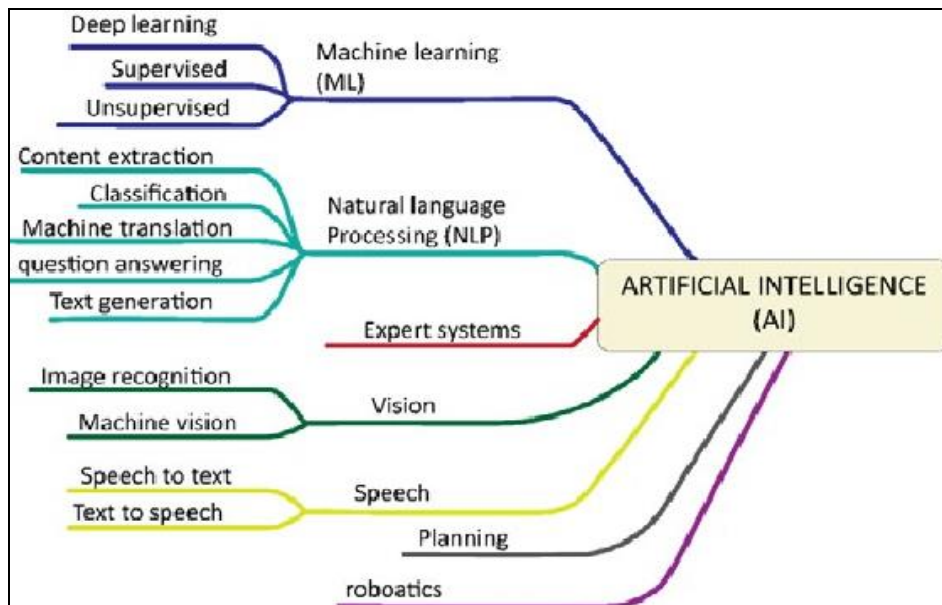
**6. Data privacy and security:** An essential factor on which all through and through and mechanical learning models are based is data getting and planning resources. To be sure, we do have data, yet since this data is made from countless customers all throughout the planet, there is probability that this data may be used for poisonous purposes. For example, expect a clinical consideration provider offers sorts of help to 1 million people in a city, and due to advanced attacks, the singular nuances of each 1,000,000 customers fall heavily influenced by everyone on the dim web. This data recollects data for ailments, clinical issues, clinical history, and anything is possible from that point. To worsen the circumstance, we are by and by overseeing planet size data. With such a ton of moving toward information coming from all pointers, there will undeniably be a couple of cases of data spill. A couple

of associations have begun to work more splendid than any time in ongoing memory. It trains data on splendid devices, so it isn't returning to the laborers; simply a pre-arranged model is returned to the affiliation.

**7. Bias problem:** The positive or negative of an AI structure depends generally upon the proportion of data they are ready to. Thusly, the ability to find extraordinary data is a solution for incredible AI programs later on. Nonetheless, the ordinary data gathering affiliations is unfortunate and has no value. They are uneven, and by somehow describe the nature and the significance of a set number of people with similar interests the extent that religion, race, sex, neighborhood, other racial inclinations. Certified change should be accomplished by describing various computations that can all the more promptly follow these issues.

**1. Scope of Artificial Intelligence to Handle COVID-19 AI based model for treatment of COVID-19 patient**

The AI-Based model ought to be made to fight against the remarkable move of people getting tainted with the Covid. Patients having appearances of hack and fever ought to be screened and if they are attempted positive should keep imprisonment and disconnect for 14 days. Obtain the measure of the polluted person. Geotagging is used for contact following of a COVID-19 patient incorporates "Disease agents" ground level human experts who go door to door following the advancements of positive patients other than using CCTV for signs or ID structure to approve extreme acknowledgment of home separate. In the wake of outperforming the measure of separating and attempted positive, meds are visiting be given to the patient and screened again to check whether the patient is recovering [6].



**Fig 2:** Branches of artificial intelligence

**AI based fever-detection system**

The Athena Fever Detection System gives smart, right mass assessing for raising temperatures. The system is non-prominent, non-contact, and speedy. The system recognizes the embodiment of the subject, ignores trouble spots like hot lights above and other hot things on the singular like a

remote or hot coffee. The singular ganders at the camera, and the system tracks down the most bursting focuses on the face near the eyes, called the inward canthus. Athena is most broadly used as the first of a two assigned spot framework where fever is then certified by a couple of second clinical thermometer. The temperature assessment is

begun at varying regions around using infrared imaging system and handheld thermometers. The faraway fever area system is adjusted with measure a human temperature in a very gathering a distance away of up to 5 meters [7].

### AI for virus detection and epidemic prediction

Man-made intellectual prowess is all things considered, wide utilized in the circle of medicine to forestall, control, and predicts the spread of contaminations. With new irruptions like the current scene of the Covid, AI is making the chief influence. We understand that even before the data on the Corona contamination irruption opened up to the world, a Canadian-based figuring (AI) based association; Blue Dot recently had raised accomplice early ready. Man-made consciousness has returned a comprehensive way in plague gauge and understanding it's models. Not only that, by exploring the general transporter labeling data, the corporate moreover expected that the infirmity might spread out to places like capital of Japan, Bangkok, Seoul and Taipei Blue Dot use phonetic correspondence collaboration and AI to winnow data from a colossal number of sources, similarly as explanations from genuine general prosperity affiliations, progressed media, and world transporter it's pre-arranged to apace procedure heaps of data each quarter-hour, 24 hours step by step [8].

### AI based patient screening system

Assessing an outsized extent of suspected patients for sufficient segregate and treatment may be a need task that needs a quick and right demonstrative strategy to deal with the extended of (COVID-19). Pathogenic lab testing is long with huge bogus adverse results. Enlisting is Associate in a nursing relationship of significant finding that may be used which might choose tomography changes in CT pictures. The significant learning technique will remove COVID19's graphical decisions to make a clinical task past the infective explore so saving critical time for health the load up A system projected to use strong 2D and 3D significant learning models, changing and changing existing AI models and mixing them in with the clinical game plan [9].

### Robots and drones providing health care services to COVID patients

Coronavirus Patients Clinical benefits experts are constrained to pioneer and use development to fight the extended of pandemic along the edge of passing on speedy and safe treatment. Nonetheless, there are three zones drones are consistently used to help from gigantic scourge adaptable disease.

1. The raised discernment colossal scourge irresistible ailments spread out size appraisal.
2. The huge scourge irresistible afflictions authentic and thing movement.
3. The post huge pandemic irresistible afflictions examination

Observation drones are changed in accordance with screen individuals every single through lockdown, dispersing public social gathering, traffic insight, trash evacuation discernment, chooses individuals not after agreeable isolating and not using the cover and choose those that have exceeded the country's limitation laws. Robots are used to fly clinical models and disconnect materials all through the extended of contiguous pollution COVID-19 [10].

### Rise of ai makes emotional intelligence more important

There are basically so various things machines can show improvement over individuals, and we should not to be too satisfied to even think about evening think about surrendering them. Various capable positions follow a comparable general movement of work: (I) Gather data (ii) Dissect data (iii) Decipher the results (iv) Choose the recommended system (v) Start the action We can look at many tasks to check whether this end is substantial. For the most part the specialists perform tests, plan a treatment, and a while later movement with the patient to play out the treatment sensibly. Financial specialists assemble and stall information about their clients and potential vehicles to contribute, unravel results procured from a combination of parts, for instance, peril opposition, recommend a theory philosophy, and help their clients with developing the framework as time goes on. Business advisors do moreover, in any case, break down and tackle business issues. These significantly gifted experts can deal with unnecessary expenses because of the three capacities. Reproduced insight and AI will quickly outflank our capacities in two capacities - and this will change the capacities needed for any specialist who wishes to stay in these situations as they are changed by innovative cleverness [11].

It isn't hard to see the piece of modernized structures in data variety and examination. We recognize that machines can do such occupations competently. A couple of gathering might say we can never accept machines with critical decisions like the organization of our lives and money, yet this is a twentieth century thinking. Regardless, the new age is presenting to its splendid, trusted, and routinely current stuff. Plus, it is difficult for anyone to fight with the results. Notwithstanding, these capacities will be essential for any person who needs to stay significant in their field as robotized programs increase. We have three propositions: Do not fight for mechanical movement. Man-made intelligence and AI might perhaps further develop results and lower costs - so don't fight robots. Embrace change in your industry and work to make it more profitable and unsurprising. Test your social capacities, impel and test people. Think about your characteristics and inadequacies with respect to energetic information. Put resources into working on your energetic understanding. A straightforward strategy to change your mental model with regards to what's huge in your work, and a while later start focusing in on how you can all the more promptly supervise, affect and relate to other people.

## 2. Future Scope of Artificial Intelligence

### AI in science and research

Man-made thinking has a respectable expansion in improving life, and the numbers have been exhibiting this case from here on out. For example, in 2019, there was a revelation in prescription and AI when researchers found that the start of chest infection can be recognized exactly very quickly and can help experts with recognizing terms of positive and undermining cells. This is just one model among various while considering the future degree of man-created intellectual prowess to fathom that AI can be put to practical use in any field. An uncommon model is 'Eve,' which is an AI-based robot. It discovered a component of toothpaste that can fix a dangerous disorder like Malaria. Imagine a regular substance present in something conventional that is good for treating Malaria.

Biotechnology is another field where examiners are using AI to design microorganisms for mechanical applications [12]. Contemplating the aggregate of this, it is secured to accept that AI will revive coherent assessment and application rapidly.

**AI in agriculture:** Mindful orchestrating of resources nearby AI will help farmers with creating viable items while regulating resources in an amazing manner. Thinking about components, for instance, ecological change and people advancement, AI might potentially offer creative responses for further develop the gather yield over the long run to satisfy the rising requirements. The future degree of man-made cognizance incorporates using robots to help in crop prosperity acknowledgment, gathering and soil examination. This will indeed ensure positive results eventually. A fundamental mechanical assembly, for instance, a PDA camera can be used to play out a wide grouping of assessment and tests in the field of cultivation. If this is joined with AI, the possibilities are fundamentally ceaseless with huge potential [13].

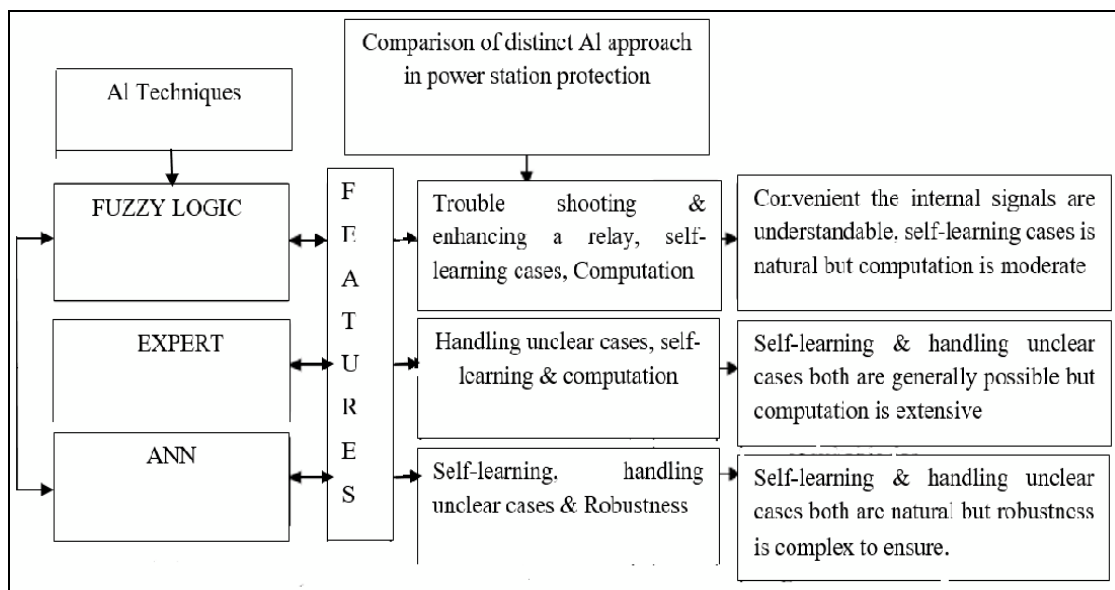
**AI in cyber security:** We face a day by day reality, with the end goal that everyone is concerned for the prosperity of their data and their security. This has been a somewhat long concern for quite a while and network insurance was the reaction to the issue. The central thing that comes into mind when there is any conversation about coercion is the Visa deceives that have been continuing for the latest few years. To keep their data and resources secure, affiliations are making massive interests in network insurance. The future degree of AI in network security is marvelous. Various associations are using AI-based responses for modernizing the dull cycles present in internet based assurance. For example, IBM has IBM strong, which is a pragmatist and open stage that gives the establishment and the middle point for regulating security responses. Another field is distortion revelation. Mimicked insight can help in distinctive fakes and help affiliations and people in avoiding stunts. For example, tedious neural organization fit for distinguishing distortion in their starting stages. They can analyze expansive measures of trades quickly and portray them

according to their constancy [14].

**AI in data analysis:** Data is the new oil and Artificial Intelligence is the new engine. Right when the data has accomplished an especially unbelievable status nowadays where it is driving a couple of associations to advance and thinking up sharp and compact responses to the world's issues, it would benefit immensely if the power of AI is used to recognize models and examples that are not observable to the normal eye. PC based insight can recognize models and pieces of information that normal eyes can't see without putting resources into a lot of energy. Also, it is speedier and more versatile at doing in that capacity. You can ask Analytics Intelligence a request in direct English, and it would offer you a short response. It also outfits site administrators with Smart Lists, Smart Goals, Conversion Probability, and various features that help the site administrator in working on the eventual outcomes of their website page. The degree of AI in data assessment is rising rapidly [15].

**AI in power station**

Nuclear energy stations, thermal energy stations and hydro power plants are three unmistakable classes of force plants for power age. The AI assumes significant part in power frameworks applications that incorporates to improve the proficiency of heater parts, control of force (Power stream control, voltage control and so forth), The circulation framework (network reconfiguration, activity and arranging, request side administration and so on), Power framework arranging (power framework unwavering quality, receptive force arranging and so on), Forecasting (long and short, sun based and wind power gauging and so on), technique games and control of organization, and so on [A]. Moreover, the serious issues in nuclear energy station are consumption, oxidation and disintegration. Notwithstanding, different creators [15] have utilized different kinds of coatings to battle high temperature oxidation, disintegration erosion. Yet, the utilization of AL in power plant can assume a critical part. The three particular methodologies of AI and their components correlation in power station security is delineated in Figure 3.

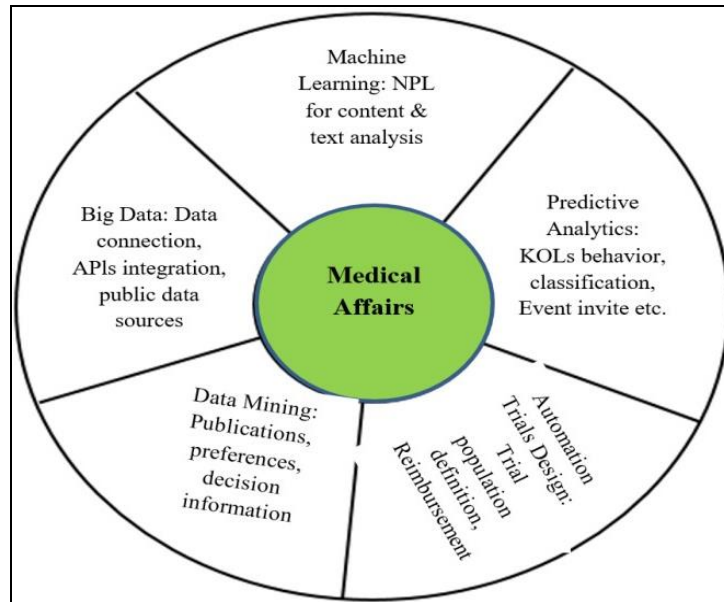


**Fig 3:** Comparison of three distinct AI Techniques and their feature of power system protection

**Simulated intelligence in healthcare**

The clinical region is similarly using this development for its advantages. PC based insight is helping clinical investigators and specialists according to different viewpoints. We've successfully referred to how AI is helping researchers in their field also. Beside discovering a solution for illness, a couple of affiliations are using AI to help patients with getting telemedicine. The UK's National Health Service uses Google's Deep Mind stage to distinguish prosperity chances in people through applications. Recreated insight can help experts in avoiding

these slip-ups by outfitting them with material informational collections and recommendations. It can separate the informational index of patients with relative incidental effects and suggest the treatment that was the most incredible in those cases. Numerous huge affiliations, including IBM and Microsoft, are cooperating with clinical foundations to deal with the various issues present in the clinical consideration region [11]. The particular utilizations of M.L. units and M.L. models in clinical issues are displayed in Figure 4.



**Fig 4:** Use of ML kits and ML models in medical affairs

**Growing access to care in underserved or developing regions**

Radiological pictures got by MRI machines, CT scanners, and x-radiates offer non-meddling deceivability into the interior activities of the human body. In any case, various expressive cycles really rely upon genuine tissue tests procured through biopsies, which pass on, chances including the potential for sickness. Man-caused thinking will to enable the exceptional time of radiological instruments that are careful and organized enough to substitute the prerequisite for tissue tests now and again, experts expect. We need to join the scientific imaging bunch with the subject matter expert or interventional radiologist and the pathologist," said Alexandra Golby, MD, Director of Image-Guided Neurosurgery at Brigham and Women's Hospital (BWH). "That gathering up of different gatherings and changing goals is a significant test." "if we need the imaging to give us information that we by and purchase get from tissue tests, by then we should have the choice to achieve incredibly close enrollment so the ground truth for some arbitrary pixel is known." Prevailing in this mission might allow clinicians to develop a more accurate perception of how cancers act generally rather than assembling therapy decisions as for the properties of a little part of the danger [38] Suppliers may similarly have the choice to all the more promptly describe the forcefulness of illnesses and target prescriptions even more appropriately. Man-made mental ability is helping with enabling "virtual biopsies" and advance the imaginative field of radio mics, which revolves around harnessing picture based computations to depict the

totals and genetic properties of cancers [10].

**3. Diseases and impact of ai on them**

An exemplary approach to repurpose drugs is through network medication, which incorporates the development of clinical information charts containing the connections between various types of clinical elements (for example infections, medications, and proteins) and predicts new connections between existing supported medications and illnesses (eg, COVID-19), Methods that depend on chart installing have been acquiring consideration for interface forecast in diagrams that address hubs and edges as low-dimensional element vectors. Utilizing the element vectors of medications and illnesses, we can undoubtedly gauge their similitudes and accordingly recognize compelling medications for a given sickness. One test for the diagram inserting strategy is adaptability. Genuine world (information) diagrams are normally huge. The quantity of substances in a clinical information chart could be upwards of a few million. Existing AI frameworks, for example, Tensor Flow and PyTorch is predominantly intended for information with normal designs yet not intended for enormous scope charts. Subsequently, a few frameworks that are explicitly intended for learning portrayals of enormous scope charts have been created. For instance, Zhu and colleagues[31] fostered an elite framework named Graph Vite that could be promising the future medication repurposing in light of the fact that the framework can proficiently deal with tens or even countless hubs [12]. Expanding revenue exists in creating chart portrayal

learning procedures for drug repurposing. Sosa and partners developed a clinical information chart of medications, sicknesses, qualities, and proteins from the biomedical writing and utilized diagram inserting strategies for anticipating the connections among medications and infections.

A group built a far reaching COVID-19 information diagram (named CoV-KGE) that included 15 million edges across 39 kinds of connections interfacing drugs, sicknesses, proteins, qualities, pathways, and articulations of qualities and proteins<sup>35</sup> from a huge logical corpus of 24 million Pub Med distributions.

Utilizing Amazon Web Services' registering assets and diagram portrayal, learning strategies, the group recognized 41 repurposed drug applicants (counting dexamethasone and melatonin) for COVID-19 treatment. To accomplish a high prescient presentation, the development of a great clinical information chart is fundamental, which itself is a promising course for future exploration. The schematic portrayal of utilization of A.I. models Biopharma Chain in Machine Learning Models and excursion for discovery to fix with the assistance of A.I. Model are outlined in Fig.6 (a, b) individually.

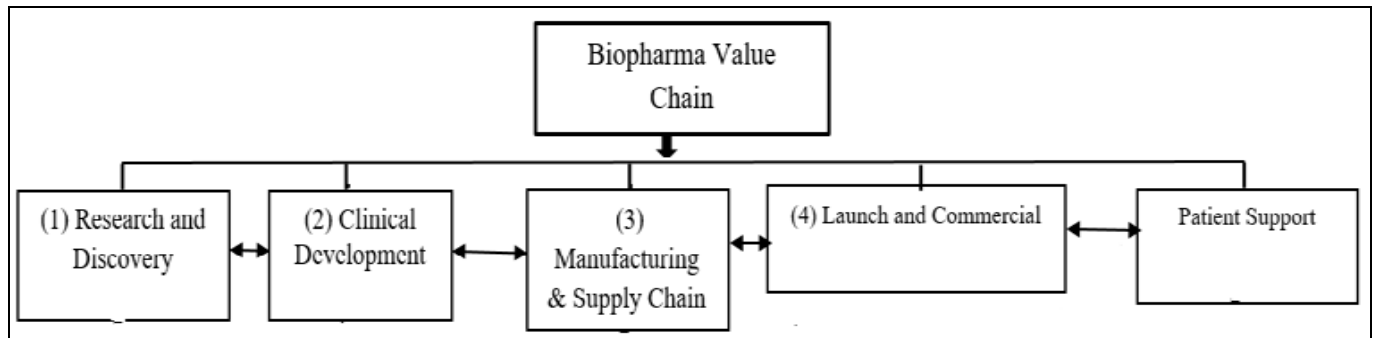


Fig 5: (a) Uses of AI models bophirima chain in machine learning models

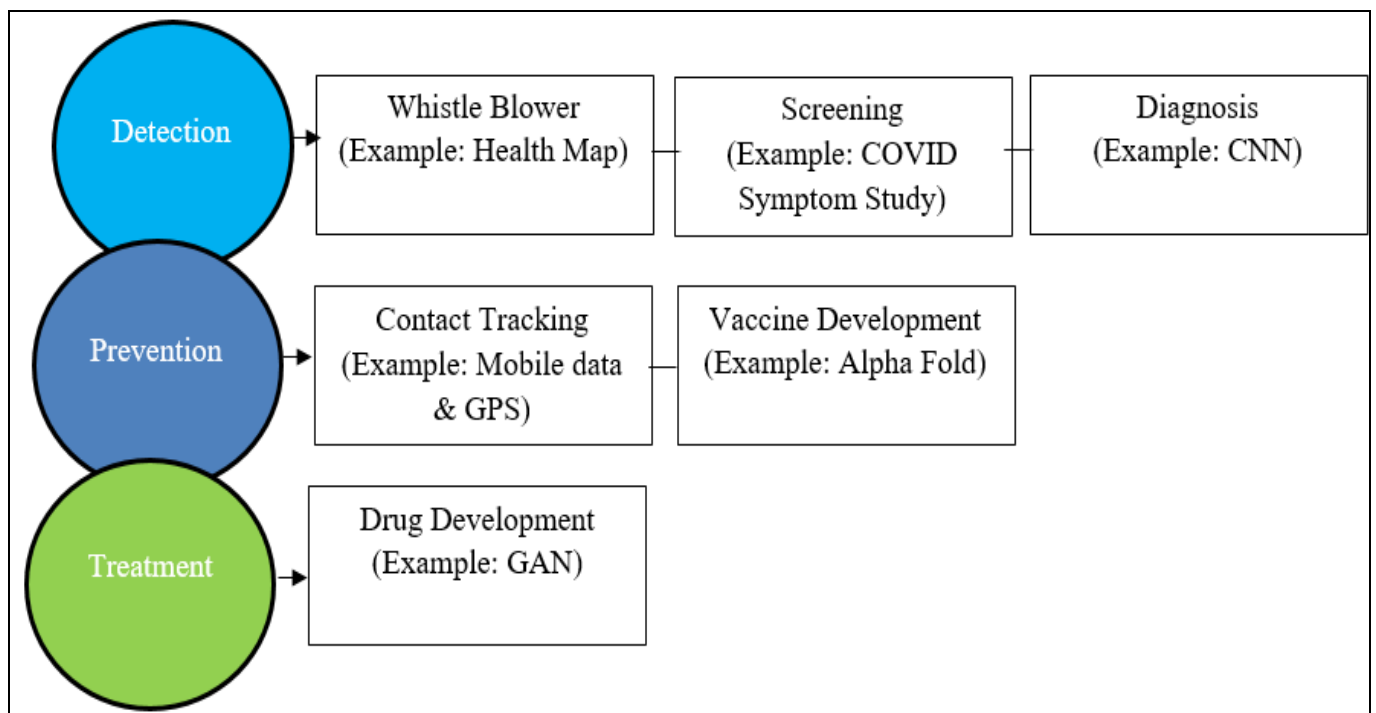


Fig 5: (b) Journey for Detection to cure with the help of AI Model

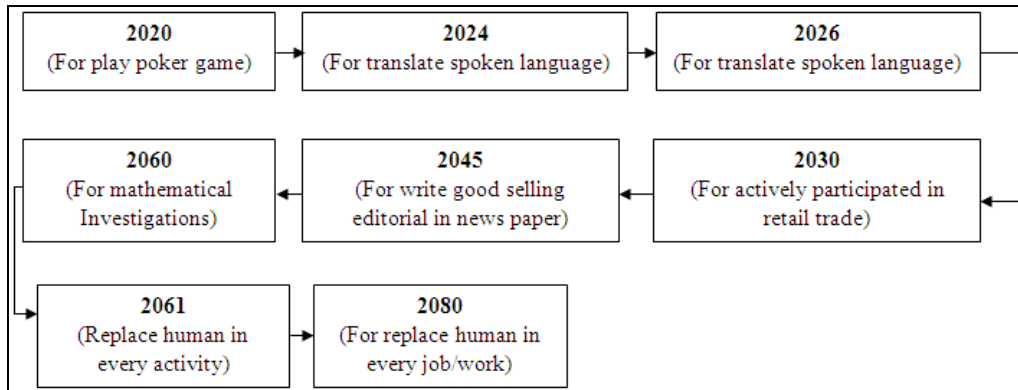
**4. Application Domain**

The fake neural organizations device is a significant device for tackling a few issues (machine interpretation, dynamic, representation, bunching, and so forth)

Inferable from this it is exceptionally reasonable in a few unmistakable regions. The year savvy expected advancement of man-made reasoning is portrayed in Figure 6.

Simulated intelligence improves lives of man creatures by giving individual consideration of impediment individuals,

matured individuals, conveying multilingual while not knowing the language, give assistance in interpreting, and so on It has a wide degree in various areas that incorporate, satellite control, xeromorphic figuring, publicly supporting and human calculation, showcasing, military work control, transporting, PC vision, plant format, atomic administration, schooling, support learning, AI, profound learning, online media, agribusiness, E-business, reconnaissance and so forth Likewise, its space of uses are not restricted, presently there are significant regions where AI is most generally utilized.



**Fig 6:** Anticipated progress of AI

## Conclusion

Man-made consciousness assumes a huge part in the different fields. Notwithstanding, less writing is accessible for medical care, instruction, social administrations and style area, and so forth. The different analysts have just referenced the innovative part of man-made reasoning applications. Notwithstanding, there is a need to investigate the policy implementation model for the administration of the authoritative state. As of now, AI takes care of numerous issues in unmistakable areas. It works in a capable manner to emulate like human knowledge and furthermore give a job in comprehension and proposing the improvement of an immunization for Corona infection. Since, the medical services areas are in an earnest necessity for dynamic procedures to deal with this risky infection and help them in getting legitimate ideas progressively to keep away from its spread. Also, man-made consciousness will make extravagance of new information science, AI, and IT work positions to advance just as keep up with the frameworks/programming that will be running those fake calculations and upgrade the personal satisfaction of humanity. Subsequently, the aftereffect of this innovation is used to screen, expectation, dissecting and following of current just as future patients.

## Acknowledgments

The authors are thankful to S. Huang, R. Kumar and HC. Lee for providing necessary facilities of preparation for this paper. Also thanks to IJASR Journal staffs to publish this paper.

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