

GLIMPSE ON ARTIFICIAL INTELLIGENCE

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What is Artificial Intelligence?

[1] It is an art of designing intelligent machines and computer programmes. Basically, it is relatable to recognize human intelligence but it doesn't limit the methods which are observed biologically. It can be also considered as a computer-based technology which is very efficiently programmed to do understand basic human activities and to help them.

[2] To make human life more fruitful, some computational methods are used to study human behaviour which is known as artificial intelligence. In other words, we can say that artificial intelligence is the new type of technology and computer-based programme which is evolved to reduce the time and work load of humans, with efficiently and effectively in a very small amount of time.

History of the Artificial Intelligence

[3] In earlier times the line of thinking towards artificial intelligence was only fiction and imagination, means people had no knowledge regarding artificial intelligence. At that time, to use this innovative and new kind of technology was not their cup of tea. But as the time flies, some fundamental as well as creative inventions in the field of engineering and electronic items lead to boost the artificial intelligence. For example, in earlier time, in mathematics, to solve the big sums, or three variable equations, people used to solve it through pen and paper. But as the time passed away, inventions such as calculators and scientific calculators resolve this problem, they helped to solve big or step-based problems in some seconds.

[4] In ancient times, people were not friendly with the good advantages of artificial intelligence. For example, 20 years ago, people didn't have android phones whereas today, most of the people have it and now, mobile phones have become a daily part of our life. Even that, now a days people loved, familiar as well as enjoyed this new type of evolution of technology and feel happy to use this in their daily lives also. As our country is developing country, the Artificial Intelligence helped humans a lot to become advanced, fast and modern.

Growth of Artificial Intelligence

[5] Nowadays, artificial intelligence is becoming more efficient in modern society. It has helped the many parts of the world through its creative and new innovations. In this modern world, artificial intelligence is familiar in many people. For example, we can also say that, in these days, where each and every person in this world is busy in their own work, one of the best inventions, through the technology of artificial intelligence that is smart phone, with the help of them, we can do video calls, we can be stay connected through our family members as well as our relatives even if we are living far away from them. Now, at this stage artificial intelligence has become a major source of connecting people from far away parts of this world. Specialists honestly considered that artificial intelligence is becoming self-dependent day by day.

[6] Artificial Intelligence has assists to read and learn many of the activities and projects regardless of any field. It has proved itself to be very beneficial either it is a field of business, science or government through its excellent discoveries.

Artificial Intelligence in Healthcare Appliances

[7] As the time passed away, artificial intelligence had a great impact in healthcare area. For complex characteristics of human skin, the artificial intelligence device like Tactile sensor-based e-skin are used. With the help of computer and program interactive robots are also preferred for pressure sensing.

[8] In these days, doctor doesn't require to remember each and everything as earlier they do. Due to artificial intelligence each and everything is now computerised, which leads to reduce the mental pressure of the doctor. In past few years, there is a positive growth seen in the field of healthcare by artificial intelligence.

[9] In this modern world of technology, mobile phones are also termed as mini hospital at the time of serious cases. There has also been development in manufacture of medicine and modern artificial intelligence has played a major role in it.

Artificial Intelligence in Manufacturing and Production

[10] Computer techniques and artificial intelligence has a useful impact in the area of manufacturing and production industry. A huge availability of sensors and smart devices is increasing in modern world has evolved. Artificial Intelligence helped people to examine the quality of product faster, more deeply as well as broadly. Artificial Intelligence helped to analyse the things in a very proper and systematic way.

[11] With the initiation of artificial intelligence, quality of product has been enlarged. It is also cost-effective and eco-friendly in some aspects, but in some ways, some of the inventions of artificial intelligence may harm the environment as well as it is also not cost-efficient. For example, the creation of self-driving cars. First of all, they are not much affordable by each and every common people, plus the batteries through which they are invented are not that much easy to recycle. Through safety purpose also, they are not that much better.

[12] Artificial Intelligence is also used in creating the environment cost control of manufacturing sector. Through the sources of internet, we can spread awareness about to save environment and all. The automatic robots and machines, we can do this efficiently and successfully.

Artificial Intelligence in Security and Surveillance

[13] Artificial intelligence played a very important role in security and surveillance. Information Technology has made it possible to identify any unusual activities. By the help of artificial intelligence, one can easily get alerts for any critical unusual activities. For example, advanced technology-based mobile phones with extra tight security are very protected. They cannot get easily hacked or something. Artificial Intelligence has proved itself very beneficial to identify unusual activities taking place against you anywhere.

[14] All the country's military forces started implementation of artificial intelligence. The biggest example is the invention of drones. Drones and advanced technology based hidden cameras (which are usually used for string operations) helps to keep an eye on the attack which is going to be done on our military forces through our rival. This also helps our military forces to previously be prepared for attack and take a fast action against it. So, this also helps our military forces to do adventurous and difficult task with zero risk.

[15] Artificial Intelligence have a great impact on military application for a tactical battlefield on a view of strategic level. Inventions of advanced feature as well as advance technology-based weapons helped a lot to the military forces.

Artificial Intelligence in Education

[16] From past 25 years, Artificial Intelligence had consequent change in the field of education. By introducing modern and new technologies, it reduces most of the pressure of human lives. Invention of devices such as laptops, computers, calculators, etc helps to solve step-based problems in mathematics and science which saves a lot of time.

[17] Nowadays, in the field of education, there is a vast use of artificial intelligence like standard use of computer-based programmes. It can be easily observed that the students of today's generation are very much interested in learning coding and making advanced as well as personalized learning apps and games. Also, the artificial intelligence and technology equipment results the implantation of robots which helps to enhance the elementary education of the students.

[18] Usually students were used to gain knowledge through books and theoretically, but as the Artificial Intelligence enhanced, now the students are able to recognise the things practically and experimentally as well. For example, we can say that, after the evolution of smart board and smart classes, students learnt very new kind of things much faster as compared to they learnt through books. So, up to many extents, Artificial intelligence technology has benefitted the education field a lot.

Advantages of Artificial Intelligence

[19] The fast as well as advance electrical sensing devices had helped to progress artificial intelligence in the field of healthcare. Inventions of pressure sensors helped humans a lot. By providing certain signals, it generates various pressure such as blood pressure which is a standard healthcare indicator.

[20] Artificial Intelligence had already proved itself to be very advantageous. Its ability to provoke human intelligence and its cost efficiency reduces the personal time of humans. One of the best example, through the invention of artificial intelligence is that, due to our smart mobiles, we can shop online, as well as many kind of apps are launched through which we can book online tickets for travelling and also search the best places to visit. For students of new generation, the gadgets and invention taking place in the field of artificial intelligence has made them creative, innovative as well as modern.

[21] As the artificial intelligence emerged in the modern world, it helps to collect the large data based on clinical histories very easily. It also helps to share a common presentation related to disease from every field.

[22] The advantage of using an AI-based sizing of Photovoltaic (PV) systems is to provide better expansion, especially in remote areas where the data of atmospheric conditions are not available. For example, we can say that, like, in remote areas, the supply of electricity is not that much possible as compare to those who are living in big cities. So, to resolve this problem, with the help of artificial intelligence, invention of Photovoltaic type of system are evolved, such as solar panels help to generate electricity through the help of sun which can be possible in remote areas as well.

[23] Artificial Intelligence also benefitted the banks to identify the frauds in trading, algorithm-based lending models and many other things also. Creations like CCTV cameras and GPS trackers helped a lot to tolerate many crimes, robbery as well as fraud taking place in many parts of the world.

Challenges or Disadvantages of Artificial Intelligence

[24] The biggest challenge faced by Artificial Intelligence is that, most of the human jobs get affected and unemployment has increased. In some aspects there is also an increment of crime. For example, in big countries like America, Japan, there all the works are taken place through automatic machines, like in hospital, shopping malls, robots help to find all the items successfully through which the manual work gets disappeared, also there is no payment or salary which is provided to the robots by which the unemployment has increased at a drastic rate.

[25] Challenges in acquiring the techniques of Artificial Intelligence is mostly faced in public sectors recognized as key stakeholders. Findings show that different stakeholders have diverse, and sometimes contradictory, framings of the challenges. Most of the people such as farmers, small businessman or the people living in remote areas don't know how to use the advanced technology-based machines also, advanced machines with advanced technology also became very costly which cannot be afforded by common people too. This leads to be the biggest disadvantage of this technology.

[26] To handle too large data efficiently, new techniques, large volume, variety and velocity of this data. Like, sometimes due when the smart devices such as mobile phones, computer or laptops, whenever there is a collection of large data or storage gets filled, the device gets hanged, face some technical issue or stop working which leads to a big problem in our daily lives. Use of the evidence generated were also seen as significant challenges.

[27] The biggest disadvantage faced by artificial intelligence is that it can only perform those functions which are programmed in it, outside of this, it doesn't give any output. It is a big drawback of artificial intelligence. It means that the functions which are coded or programmed in it, it only gives output for those only. Other than that, it has no scope or output. Sometimes, if the programme is coded incorrectly, then also it does not give any output.

[28] There are some social and juristic challenges faced by artificial intelligence. With a focus on torts that are at least partly or seemingly due to artificial intelligence, resulting in the claimant suffering a loss or harm. Sometimes what happened, if some of inventions of artificial intelligence get failed or not get much popular between people or disliked by the common people then artificial intelligence has to faced the social challenge like failure memes on social media and criticism.

Conclusion

From this whole, we can conclude that artificial intelligence has now became a daily part of our life. It has some advantages and disadvantages but it benefits human at a huge aspect by reducing a lot of work and transforming it into a computational process. As far as we can also see that, Artificial intelligence has showed a very drastic and unbelievable growth in every field. Starting from its history, when artificial intelligence was unknown to everyone, it was very difficult for people to be familiar from it. But as time goes on, it shows a fantabulous development in reaching to the whole world. Now, artificial intelligence is common as well as very popular in all over the world. There is not a single field where either the devices or the technology of artificial intelligence is not used, either it is in the field of science, government, security and surveillance, manufacturing and production, healthcare appliances, medical care, entertainment or in the education. Everywhere, artificial intelligence is widely famous and familiar. On the other hand, we can also conclude that the technology of artificial intelligence has made the humans very lazy day by day. Due to invention of many automatic machines, human didn't want to do work at his own. Now, humans want to buy and shop everything online, daily exercise of humans get reduced due to which their physical health also get affected. Same is seen in students also, students spent most of their time with digital gadgets only, they don't even play outdoor games.

Now a days through the sources of internet and entertainment also, people are trying to spread awareness about how artificial intelligence is very useful as well as beneficial to everyone. Rather in some areas it has disadvantages but slowly-slowly, invention of new technology and creative equipment are trying to overcome its all disadvantages.

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