

ARTIFICIAL INTELLIGENCE: A HUMAN FRIEND OR EVIL

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What is Artificial Intelligence?

[1] It is a field of science and technology which makes computerised programs that help to make human life more efficient. It also does not need to undergo any method which is biologically observable.

[2] Computational method used to study human behaviour and helps to make their life more productive is known as artificial intelligence.

[3] Computer programmed devices or machines which help people in their daily life to do day to day life work. For example nowadays people use robotic home cleaners in their houses. It helps to clean the house in a proper way and more fast.

History of the Artificial Intelligence

[4] In early times artificial intelligence was only thought of as friction and imagination, but as time passed some basic invention in the field of engineering and electronic items led to the influence of artificial intelligence. Artificial intelligence also got a boost when people started to learn basic programming and started to apply it in their life, resulting in a positive impact on people's life.

[5] Twenty years ago everyone was not familiar with the benefits of artificial intelligence and their application. So they were not able to apply it in their daily life. For example everyone did not have an android phone twenty years ago, whereas today most of the people have android phones now a days. With the flow of time there are modifications and new technologies introduced in the mobile phone such as biometrics lock, water resistance, etc. which were beyond imagination a few years back.

[6] Nowadays artificial intelligence has become a must for all kinds of people living in modern society which was only an imagination a few years before. It has helped the world in many fields and leads to many new innovations and is applied in practical life. Experts believe that artificial intelligence is becoming self-dependent and improving day by day with new innovation and implementation in the world.

[7] All the companies irrespective of any small or large scale industry started to implement the use of artificial intelligence. Artificial intelligence solves many problems of the industrialist by cutting off the labour charges and expenses and it also helps to increase the productivity and maintain quality of the finished product. Therefore, the introduction of artificial intelligence has a positive as well as negative impact on society.

[8] Artificial intelligence has helped to solve and learn many activities and projects irrespective of any field. It has turned out to be excellent at discovering new ideas and is applicable in the domain of business, science and government. With the introduction of computers, data can be stored in a more organized manner and can be accessed by anyone who has accessibility from any part of the world at any point of time.

Artificial Intelligence in India

[9] Artificial intelligence played a key role to uplift the development in the country. With the flow of time India has used the artificial intelligence technology efficiently to become more productive and efficient.

[10] In the last twenty years there has been a huge implementation of the artificial intelligence in India. In recent times out of ten people around eight people use artificial intelligence device.

[11] We know that farming is one of the most common work which people of India do for their living directly or indirectly. Artificial intelligence played a vital role in field of agriculture. With the application of the harvesting machine now a farmer can harvest more quickly compared to that what he did manually. Different method and Artificial intelligence machine have helped in irrigation process to make it faster and efficient. Government must play an important role here to provide with all facilities and satisfy all the need which farmers need to use an AI machine.

[12] Indian government also has lot of implementation or use AI in a huge scale. Government uses AI technology or devices to keep old records of data. This data can be accessed at any time or can be used for future strategic planning.

[13] Indian Space Research Organization (ISRO) is space explorer agency of India, has also played an important role in growth of artificial intelligence in India. Satellite launched by ISRO help us in our day to day life. For example, we can fetch any live casting which happens in any part of world.

[14] It is fact that with AI has a positive impact in India but it is also true that it also have same percentage of negative impact in India. There are many cybercrime which are happening with the common people. Some of the cybercrime are phishing, hacking, cookies, malware, etc.

[15] Electronic mode of payment has become a common thing or a practice in India. But there are many people who are not able to use or apply it. This is one of the main reasons India cannot totally depend on electronic mode of payment or on Artificial intelligence technologies or machines.

[16] Till now many old age people or old generation people are not that good with the AI machines which is a major drawback in India. Due to this reason we cannot fully depend on the AI system.

[17] AI technology has helped industrialist or a business man a lot, but it also resulted in unemployment of lower and middle class family who directly or indirectly depend on industry for their income. It has resulted in increase in starvation rate in country.

[18] In future, India will have more application of AI system. There are many projects going on India which will uplift the AI usage. For example Bullet train will reduce the time of journey between Mumbai and Ahmedabad.

Artificial Intelligence in Healthcare Appliances

[19] There is a great impact of artificial intelligence in field of healthcare with pass of time which resulted in reduction of work load of doctors and nurses.

[20] Many type of sensor are introduced and used in medical field with introduction of AI technology. For example tactile sensor based e-skin is the artificial intelligence device used for complex characteristics of human skin.

[21] Interactive robots are also used in healthcare with the help computer and program which keep a track on the patients' health status and also help in diagnose with illness which a patient is suffering from.

[22] Robotics system is used for high accuracy task which is not possible for humans. With help of AI devices now operation can be done with more faster and percentage of error in less as they are more accurate.

[23] Now a day's doctor doesn't have to remember each and every data which usually doctor did twenty years ago. Artificial intelligence has also help doctors, nurses to reduce their mental pressure and helps to do high risk jobs more accurate related to patients health. It also help staff to take decision more precisely and accurate with less percentage of error.

[24] With application of AI, now a person who lost their body parts can again get back them in form of artificial part which mainly solve the problem.

[25] In last few years there has been a positive growth of artificial intelligence in field of healthcare. There are many project which are under construction, when it will develop it would have more implementation of artificial intelligence. As per report or research of expert, artificial intelligence devices or technology can completely take over the work of doctors in upcoming decades.

[26] In this modern world mobile phone are also considered as a mini hospital and are used in emergency. There are many application which are been used for medical purpose.

[27] With the development of artificial intelligence and with its application pharmaceutical companies can now manufacture huge number of medicines and medical related stuff at faster rate compared to before application of AI technology.

Artificial Intelligence in Manufacturing and Production

[28]. Computer network and artificial intelligence has positive and powerful impact in revolution of manufacturing and production industry. With the wide availability of artificial intelligence product like sensors, smart devices, machine productivity has increased in recent time. Industrialist and business man has showed their interest in AI technology. With the use of artificial intelligence, product are analysed faster, more deeply and broadly which help a company or an industry for a long run.

[29] With introduction of the artificial intelligence efficiency, quality and quantity of the product has increased. It also provided with cost-effective and environment friendly. These all resulted high competition of manufacturing enterprise or group in market.

[30] Many manufacturing industries depend on robots for their development of product. Automobile industry was one of the first industry sectors to implement use of artificial technology. Robots are used for manufacturing of car, its part and also used to assemble the automobile.

[31] Smartphone manufacturing industries have high impact of artificial intelligence technology. Every now and then a new feature is added to smartphone which was an imagination twenty years back. Biometrics lock, camera, water resistance and etc. are some of the feature. In this modern world smartphone is considered as a second heart for human being. Many soft wares, applications help person in their daily life. Social media also help people to connect from different part of world to learn their culture and also used for entertainment of people.

[32] Artificial intelligence is used also in designing the environment cost control of manufacturing sector.

Artificial intelligence in Security and Surveillance

[33] Artificial intelligence plays a crucial role in security and surveillance. In the recent times many new technology are used for security and surveillance purpose. It has helped many countries with increase their security and safety.

[34] IT has made it possible to detect any deceptive identities and any unusual activity with help of computerized programmed machines or software. By using artificial intelligence one can easily keep surveillance and get critical alerts for any unusual activity and prevent any attack or crime.

[35] All the countries military forces have started to implement use of artificial intelligence. They started to include many robotics and autonomous system for strength their forces. Artificial intelligence will help them to do difficult task with less percentage of risk. They even use satellite technology to keep a watch on enemy which was not possible few years back.

[36] Artificial intelligence has a great impact on military application for a tactical battlefield on view of strategic level. Many countries are manufacturing robots and use them in security of nation with providing them proper guidance and training.

[37] Artificial intelligence also resulted in revolution of gun and missile with flow of time. Many technologies and advance system are used to manufacture these missiles. Missile also equipped with advance technology. Laser guided missile is one of the advance technology missile used by different country for their security. Rader is also an artificial intelligence technology which is used for many different purposes. It is used to keep an eye on enemy aircraft and even track on their aircraft.

[38] Drone is also becoming an important part in security of a country. It helps to keep an eye on enemy and keep a track on enemy activities.

[39] As we know that there are many positive effect of using artificial intelligence but there are many negative impact also in field of security. Experts believe that any country should not totally depend on artificial intelligence technology for their security purpose. There may be malfunction of artificial intelligence devices which may lead to serious issues. There may be cases of stealing data or confidential resources which is not a good thing for any country.

AI in Education

[40] In the last twenty years education system has got a boost or has been influenced with artificial intelligence technology and devices or machines. Now a day's artificial intelligence play a great role in every student's life for collecting information and for other purposes.

[41] Artificial intelligence has main concern with the development of the human teaching technique. Its main concern is with the human teaching process and what improvement can be done in process. Now day's artificial intelligence devices are used to explore and evaluate a student with more attention. With help of artificial intelligence technology a student can be evaluated or monitored closely in details and it could help student to understand where he or she is lagging or what their weakness are, according to which a student can work for his or her improvement.

[42] With the help of artificial intelligence now student can connect to different form of cultures and diversities easily. They can learn different kind of language and cultural tradition. Nowadays eBooks are becoming very popular day by day. Many students have started to use eBooks which solves many problems for a student.

[43] Teacher uses artificial intelligence devices such as smart board, uses small video clips for teaching which is more effective for a student to understand. With help of artificial intelligence devices work load of a teacher has reduced.

[44] We know that artificial intelligence has helped a lot to student as well as teachers in field of education but there is also a negative impact as well. Student completely depends on artificial intelligence technology for everything, instead of putting any effort from them. They also use different type of malpractices in exam with help of artificial intelligence devices.

What are the Advantages of Artificial Intelligence?

[45] Artificial intelligence devices can work continuously and it do not require break or it don't feel tired with human feels. They are ready to work whenever you want them to work.

[46] The error percentage for the artificial intelligence devices are is very nominal compared to human work. Due to that reason it is used to do the risky jobs or it helps us to in high precaution activity.

[47] With the help of the AI, industry gets a boost to increase the production multiple times. For example in coin manufacturing industry, they use engraving machine nowadays to grave on coin. This artificial intelligence machine resulted in increase in production and maintains quality.

[48] AI plays a vital role to take a discussion for a company in a long term run by providing information in structured well managed way. It results in making of product output more efficient, faster and help to maintain quality.

[49] Artificial intelligence now can be used to spread knowledge. If an artificial device is ready with knowledge, it can be used to spread knowledge which saves a lot of time.

What are Disadvantages of the Artificial Intelligence?

[50] AI is also dangerous and can cause a negative impact in society if it is not used wisely or properly.

[51] AI devices may have some error in execution, opposite to command given by the user which may even lead to a disaster.

[52] Employment of the employees is getting affected both directly and indirectly which could affect economic of country.

[53] Manufacturing and installation of the AI devices are highly expensive. For repair and installation it completely depends on human resources.

[54] AI can only perform those question or tasks which are programmed to do. User may sometimes face crash or unwanted output which is backdrop.

Conclusion

Artificial Intelligence has played an important role in every aspect and field. There are many good as well as negative effect of artificial intelligence in society. So, it is up to us what way or how we take or make best use of it. There may be lot of challenges faced in future during more application of artificial intelligence technology. As per my opinion artificial intelligence is both friend as well as evil. It depend on you how you deal with it.

References

- Abdulov, R. (2020). Artificial intelligence as an important factor of sustainable and crisis-free economic growth. *Procedia Computer Science*, 169, 468-472.
- Aghion, P., Jones, B. F., & Jones, C. I. (2019). 9. *Artificial Intelligence and Economic Growth* (pp. 237-290). University of Chicago Press.
- Agrawal, A., McHale, J., & Oetl, A. (2019). 5. *Finding Needles in Haystacks: Artificial Intelligence and Recombinant Growth* (pp. 149-174). University of Chicago Press.
- Beck, J., Stern, M., & Haugsjaa, E. (1996). Applications of AI in Education. *XRDS: Crossroads, The ACM Magazine for Students*, 3(1), 11-15.

- Benko, A., & Lányi, C. S. (2009). History of artificial intelligence. In *Encyclopedia of Information Science and Technology, Second Edition* (pp. 1759-1762). IGI Global.
- Bhbosale, S., Pujari, V., & Multani, Z. (2020). Advantages And Disadvantages Of Artificial Intelligence. *Aayushi International Interdisciplinary Research Journal*, 227-230.
- Buchanan, B. G. (2005). A (very) brief history of artificial intelligence. *Ai Magazine*, 26(4), 53-53.
- Charniak, E. (1985). *Introduction to artificial intelligence*. Pearson Education India
- Chen, H., & Wang, F. Y. (2005). Guest editors' introduction: Artificial intelligence for homeland security. *IEEE intelligent systems*, 20(5), 12-16.
- Chen, L., Chen, P., & Lin, Z. (2020). Artificial intelligence in education: A review. *Ieee Access*, 8, 75264-75278.
- Chen, M., Liu, Q., Huang, S., & Dang, C. (2020). Environmental cost control system of manufacturing enterprises using artificial intelligence based on value chain of circular economy. *Enterprise Information Systems*, 1-20.
- Chien, C. F., Dautère-Pérès, S., Huh, W. T., Jang, Y. J., & Morrison, J. R. (2020). Artificial intelligence in manufacturing and logistics systems: algorithms, applications, and case studies.
- Gabriel, I. (2020). Artificial intelligence, values, and alignment. *Minds and machines*, 30(3), 411-437.
- Guo, M. Advantages And Disadvantages Of Artificial Intelligence In Business English Teaching.
- Han, L. (2018). Analysis of new advances in the application of artificial intelligence to education. *Advances in Social Science, Education and Humanities Research*, (220), 608-611.
- Horowitz, M. C., Allen, G. C., Saravalle, E., Cho, A., Frederick, K., & Scharre, P. (2018). *Artificial intelligence and international security*. Center for a New American Security.
- Johnson, J. (2019). Artificial intelligence & future warfare: implications for international security. *Defense & Security Analysis*, 35(2), 147-169.
- Khanzode, K. C. A., & Sarode, R. D. (2020). Advantages and Disadvantages of Artificial Intelligence and Machine Learning: A Literature Review. *International Journal of Library & Information Science (IJLIS)*, 9(1), 3.
- Lee, L. W., Dabirian, A., McCarthy, I. P., & Kietzmann, J. (2020). Making sense of text: artificial intelligence-enabled content analysis. *European Journal of Marketing*
- Li, B. H., Hou, B. C., Yu, W. T., Lu, X. B., & Yang, C. W. (2017). Applications of artificial intelligence in intelligent manufacturing: a review. *Frontiers of Information Technology & Electronic Engineering*, 18(1), 86-96.
- McCarthy, J. (2007). What is artificial intelligence?
- Mohammad, S. M. (2020). Artificial Intelligence in Information Technology. Available at SSRN 3625444.
- Murali¹, N., & Sivakumaran, N. (2018). Artificial intelligence in healthcare—a review.
- Murali¹, N., & Sivakumaran, N. (2018). Artificial intelligence in healthcare—a review.
- Osoba, O. A., & Welser IV, W. (2017). *An intelligence in our image: The risks of bias and errors in artificial intelligence*. Rand Corporation.
- Spiro, R. J., Bruce, B. C., & Brewer, W. F. (Eds.). (2017). *Theoretical issues in reading comprehension: Perspectives from cognitive psychology, linguistics, artificial intelligence and education* (Vol. 11). Routledge.

- Strong, A. I. (2016). Applications of artificial intelligence & associated technologies. *Science [ETEBMS-2016]*, 5(6).
- Teng, X. (2019, April). Discussion about artificial intelligence's advantages and disadvantages compete with natural intelligence. In *Journal of Physics: Conference Series* (Vol. 1187, No. 3, p. 032083). IOP Publishing.
- Wagner, J. B. (2019). Artificial intelligence in medical imaging. *Radiologic technology*, 90(5), 489-501.
- Woolf, B. (1991). *AI in Education*. University of Massachusetts at Amherst, Department of Computer and Information Science.
- Zang, Y., Zhang, F., Di, C. A., & Zhu, D. (2015). Advances of flexible pressure sensors toward artificial intelligence and health care applications. *Materials Horizons*, 2(2), 140-156.