

The Increasing Possibilities & Impact of Artificial Intelligence in the Current Perspective (In the special context of the India)

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Abstract

In a developing nation like India, artificial intelligence is in a continuously progressive state, and there are numerous fields in our country where various experiments can be conducted with it. Considering its role and potential in the development of the nation, the business/industry sector has suggested to the government to identify those areas where the use of artificial intelligence can prove to be extremely beneficial. The central government also desires that, for the sake of organized governance, artificial intelligence should be used systematically throughout the nation wherever possible. The government has appealed to the entire industry to cooperate in creating a comprehensive model for the proper use of artificial intelligence. As a result, the industry has suggested that the government focus on the following points:

As such - a constitutional body (authority) should be established in the country for the oversight and regulation of artificial intelligence, which would determine all its rules and regulations, etc. So that all types of activities related to it can be monitored. Along with this, the central government should identify the areas where it can be used/utilized most on a priority basis. Perhaps technology, energy, education, health, transportation, agriculture, etc. may prove to be the most suitable fields for this.

Keywords: Technology, Energy, Education, Research, Health, Entertainment

Introduction



The first question that arises before us is, what exactly is artificial intelligence...? Knowing the answer to this question is extremely important because until we understand what they really are? Until then, we will not be able to analyze it in any way. In true meaning, artificial intelligence began in the 1950s. Its actual meaning is - "Artificially developed intellectual capacity." Through which a computer or robotic system is created. It attempts to operate based on the same criteria/reasoning on which a human brain functions.

John McCarthy, who was an American computer scientist, was the one who coined the term "**Artificial Intelligence**." John McCarthy is considered the true father of artificial intelligence. According to him, it is a science and engineering for creating intelligent machines, especially intelligent computer programs. Artificial intelligence is an excellent and systematic way to create a mechanical robot controlled by a computer or software that can think intelligently like a human. This studies how the human brain thinks? How does one learn while solving a problem, how do they make decisions, and how do they work?

(Interpretation) - *The implication is that artificial intelligence is a form of intelligence exhibited by machines. It is an artificial form of the activities of the human brain that has been developed by humans themselves.*

In simple terms, we find that various types of films have been made on this subject both in foreign countries (Hollywood) and in our India as well. For example: Star Wars, The Matrix, Robots,

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Terminator, etc. From which it can be made clear what artificial intelligence really is? The greatest chess player of all time, Garry Kasparov, was defeated by an artificial intelligence system in 1997. This makes us question whether the technology created and developed by humans is truly better than humans themselves. This is actually a serious question to consider?

Future Possibilities

The true beginning of artificial intelligence started in the early 1950s. However, its significance was truly recognized in the 1970s. The first initiative towards this technology was taken by Japan in 1981 through a program called the Fifth Generation. This plan presented a framework for a 10-year program for the development of supercomputers. Subsequently, other nations also began to pay attention to this matter. A project named 'Elvi' has been developed by Britain for this purpose. European Union countries also launched a program called 'Esprit'. After that, in 1983, some private institutions came together to develop highly advanced technologies that would have an impact on artificial intelligence. To develop Very Large Scale Integrated circuits, an organization 'Micro-Electronics and Computer Technology' was established. In reality, this is a method/technique through which a program is created by a computer that works exactly like a human. With the development of technology worldwide, there are great possibilities for this technique to be widely developed in India as well. It is estimated that the use of this technology will lead to revolutionary developments in various fields including healthcare, banking, entertainment, technology, and transportation. Through this technology, AI driven automation will result in unprecedented changes in the market, leading to a complete transformation of the global market. To control which, new positions and skills will be required, meaning there will be the creation of employment opportunities.

India's Finance Minister Mr. Arun Jaitley had clearly mentioned in the budget for the year 2018-19 that the central government's think tank, NITI Aayog, would soon prepare a framework for a national artificial intelligence program. Prior to this, our neighbouring nation China had also released the outline of its three-tiered artificial intelligence program. On the basis of which he is contemplating becoming the leading nation in the world in this field by the year 2030. A committee is being formed under the chairmanship of Shri Rajeev Kumar, Vice Chairman of the NITI Aayog, to outline a national-level artificial intelligence program. In addition to representatives of the government, this committee will also include distinguished educators and prominent individuals from the industrial sector, so as to minimize the possibility of errors in the framework. In the current budget, the central government has allocated approximately 480 million dollars for fifth generation technology startups. which includes artificial intelligence, machine learning, the Internet of Things, 3-D printing, and block chain. In addition, the government [is focusing on] artificial intelligence, robotics, It is planning to promote research, training, human resources, and skill development in the fields of digital manufacturing, big data intelligence, real-time data, and quantum communication. It appears that the future of this technology is very bright.

Impact of AI

In the current context, a very pressing question arises before us: will advanced technology-equipped intelligent machines increase unemployment or make humans more skilled? It is not possible to answer this question under the current circumstances. When their use becomes widespread, it will be possible to ensure how these intelligent machines can be used efficiently in a specific field. Because it is very important to use this technique systematically in order to achieve success in any field. A skilled craftsman, artist, writer, musician, teacher, or doctor, etc., will certainly have job

opportunities created in the age of intelligent machines, and at the same time, this technology will also enhance their efficiency and skills. The most successful will be those who are able to conceive entirely new ideas, innovations, technologies, etc. So far, a total of seven humanoid robots have been presented to us, which are as follows:

- Sophia
- Atlas
- Ameka
- Nadine
- Esio
- Erika
- Osina

Sophia, an artificial intelligence-driven robot citizen of Saudi Arabia, is proficient in multiple languages. According to assessments by computer and robotics experts, the future will be dominated by this technology. AI means human-level intelligence. The IQ level of the great scientist Einstein was estimated to be 160, while the IQ of ChatGPT-4 is 155, which is above that of an average person. Computer scientists believe that robotic machines developed with this technology will have capabilities approximately 3000 to 5000 times greater than those of an average human. According to Washington psychologist Mary Alvard, artificial intelligence is continuously growing, so the more we stay updated about this technology, the more prepared we will be for the future workforce. Generally, it can be said that artificial intelligence is a highly complex subject; therefore, a comprehensive study regarding the positive and negative impacts of this technology is needed first. At the same time, the government needs to be very vigilant regarding this technology (artificial intelligence). The government needs to perform its role in the use of this technology with a very positive attitude. The groups that are most affected by changes brought about by mechanization in any field are those who are unable to make necessary and desirable improvements in their efficiency and skill capacity within a certain time frame. Therefore, the government needs to provide adequate training and sufficient resources for individuals in such groups. In this changing era of technology, there is a need to provide skills to individuals and groups for specialized tasks, and for this, a precise and solid infrastructure should also be developed, and for this, a precise and solid infrastructure should be created, along with the need for its proper implementation.

Conclusion

Artificial intelligence has been a highly controversial subject of major discussion in developing nations like India, along with the entire world, for several decades. Many researchers and scientists have periodically discussed its positive and negative outcomes. Currently, technological changes are happening at a rapid pace across the entire world. Efforts are being made to accelerate development work and provide better basic amenities to people by making extensive use of advanced technology in every sector. Increasing industrialization, urbanization, and globalization have not only accelerated the pace of development but have also given rise to numerous problems. Many efforts are needed to solve these problems. While researchers and scientists are highlighting numerous benefits of artificial intelligence, they also believe that the biggest loss caused by this technology will be to humans themselves. Because in the future, all human tasks will be done by machines, and there is a strong possibility that in the near future, machines will start making



decisions on their own, and if they are not controlled, it can prove to be a great threat to human civilization. Therefore, before using this technology, it is essential to balance its benefits and harms by considering all positive and negative effects.

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