



## ROLE OF ARTIFICIAL INTELLIGENCE IN IT FIELDS

Harinath Reddy

Department of Information Technology, RMIT University  
Australia

---

### ABSTRACT

Artificial intelligence has been very effective in business, in the medical field, in government and in society as a whole. Good examples of this inclusion are evidenced by search engines or algorithms such as Google, Facebook and Bing, among others, "in-depth learning on PayPal, Watson for IMB, and independent weapons". Some sections of the community welcomed it with open arms and accepted its importance while others had mixed feelings. Due to a variety of theories, this research project will analyze the impact of AI on society. Influential areas include politics, the economy, the environment, culture and society as a whole. By reading this research report, you will also learn about ethical considerations related to the use of AI.

### INTRODUCTION

Artificial intelligence, known as AI, is a rapidly evolving technology as it is integrated into search engines or algorithms such as Google, Facebook, and Bing, among others, "in-depth learning on PayPal, Watson IMB and standalone weapons". Basically, artificial intelligence can be defined as the simulation of human intelligence processes such as self-preparation, thinking, and learning as done with computer programs. In other words, unlike natural instincts, artificial intelligence is displayed by computer programs. As AI has had some uses like speech recognition, expert systems and machine vision, it has attracted attention due to potential issues, expected outcomes, and new applications. It is for these reasons that this research paper will consider these emerging technologies.

In terms of design, this study will analyze the impact AI has had on society. Ideally, a timeline of the history of previous technologies will be made. Thereafter, the impact of social, cultural, political, economic and environmental impacts will be discussed. This will be followed by a good consideration of AI. That this project is going on like this.

## HISTORICAL TIMELINE AND PREDECESSOR ASSESSMENT

### Historical timeline

This section presents a timeline of the history of the three technologies that preceded artificial intelligence, which is the current topic of this study.

#### **An examination of the impact of this technology on AI development**

Artificial intelligence is the ingenuity shown by machines and compares to natural intelligence as shown by certain humans and animals.

The historical timeline shows some of the predecessors in the current wisdom. In the next section, I will provide an overview of how the above technology contributes to the development of current AI.

The continuous replacement of non-motorized vehicles is one of the tools of artificial intelligence. However, this idea was not born recently but was written in 1925 when "Houdina Radio Control removed a car

radio-controlled car. Therefore, the removal of this driverless car has reduced the way in which to expand the use of AI is the current change in non-driver vehicles.

Gakutensoku was designed by Makoto Nishimura in 1929. It is the first robot built in Japan. As the development of robots is one of the applications of AI, it has provided an opportunity for the development of new and advanced robots not only in Japan but around the world.

When Arthur Samuel made his first play program in the first year of 1952, he did not know that this could be the basis for new and difficult learning programs on his own. Many of these advanced AIs such as “Alexa, Cortana, Siri, and Google Help.

#### **Analysis of the impact of AI on society**

Under this section, discussions were held about the impact of artificial intelligence on society. Covered areas include social, cultural, political, economic and environmental impacts. That means the conversation goes on like this:

### **SOCIAL IMPACTS OF AI**

Artificial intelligence has acquired a lot of art in the last few decades. This shows that AI has been well received because many AI technologies have grown from being a laboratory mythology to being dug into the market. A good example of such technology is drones ranging from the mythology of writers to mass production to sell as market products. With positive feedback from the community, it should be understood in advance that AI did not receive all the positive feedback from the community but generally most views are okay.

The attitude towards change has become even more positive from those in the community who have a positive view of AI. Many businesses or organizations have strong confidence in the power of AI until they have adopted one of those sophisticated computer technologies to replace human psychology and solve real-world problems. A good example is the set of automated Teller Machines, ATMs by banks around the world. Other programs have been adopted at the academy as well as in industry. In industry, compelling evidence can be seen in the use of AI in state protection, search engine, applications on smartphones, social networks, medicine and finance.

With all the compelling evidence for using AI, people are learning that they can rely on artificial AI capabilities to solve real-world problems. The human mind is freed from the tiring, tedious tasks of having to work every day to solve the same problems of the real world. In other words, AI has changed the solution to real world problems.

One person has met their basic needs, their attention shifted from secular work, social participation, personal security, self-confidence, and self-reliance, many of which are met online. The use of cell phones makes communication easier while simultaneously connecting people with similar interests from all walks of life. This has happened in a situation where young and old alike use smartphones to easily connect to different social networks where they can join different groups that meet places of interest. Also, it is through mobile phones that businesses and individuals have been able to form new friendships while others have used it to run a business even though they are internationally divided.

By looking at the many groups and organizations that have developed and prospered as a result of AI, technology has brought together people sharing the same interests. This is supported by the members of the group who have contributed most to the prosperity of the members of such communities. For example, the

community of cochlear implants has provided the support of their members for the benefit of all as a community and the community as a whole because they are able to communicate with others, communication that may be broken when technology does not work. However, other groups such as genetically modified foods, GMOs have adversely affected the general public even though it has helped to solve another real hunger problem. In fact, some diseases have been brought on by prolonged use of genetically modified foods. This means that just as some of these technologies have had a positive impact on the community, there are risks of misusing them, or the privacy of the public being violated.

### **THE CULTURAL IMPLICATIONS OF ARTIFICIAL INTELLIGENCE**

The elements of culture are: symbols, language, beliefs, values, and art objects in his group. The whole community has signs not only in seamless communication but also in the form of tangible objects like objects. Symbols are designed to elicit various effects and emotions and represent other things. For example, while some communities, they embrace handshakes to show greetings, walks and show friendship to other makers.

The language of the whole community is different from those who communicate with it. Proper multilingual translation allows others to use AI, not only in terms of language but also in society as a whole. Cultural norms that represent social norms and moral expectations also vary from one community to another. Each community has its own arti

Celebrities' use of advertising technology such as phones is widely accepted and widely accepted. This ensures more and more new customers. Artists and artists help promote the Use of AI. Artists record videos featuring technical aspects. Artists can paint, paint or do anything with any technological invention. Les Paul is best known for inventing a powerful electric guitar. Ayo's Courtney Pruitt's poem has no technology that serves as an example of a work that speaks to technology.

Moreover, through the use of technology, humans are able to express themselves. For example, when people use an online platform to pray and donate money to a person asking for help.

### **THE POLITICAL IMPLICATIONS OF ARTIFICIAL INTELLIGENCE**

The 2009 American Innovation Strategy, which includes promoting sustainable growth and high-quality jobs, was launched in February 2011 and later in October 2015, aimed at providing government strategic and policy indicators for expanding the economy based on the new economy.

With U.S. economic and legal policies in place, technological advances and implementation are undeniable. This will not only help grow the country's economy but also create jobs for citizens. Political factors such as rising and falling taxes, the political environment and the level of fraud have a major impact on technological growth.

With a stable political climate, with no levels of corruption or low levels, technological advances will be evident. A nation that is politically unstable, holding elections every now and then and then running backwards when it comes to innovation.

Politicians can bring about the development of new technologies. The private sector also contributes to the development of technology for growth and development. Private companies are able to work with the federal government to ensure technological advancement.

## **THE ECONOMIC IMPLICATIONS OF ARTIFICIAL INTELLIGENCE**

The economy of any given nation depends on technological advancement. AI helps to create jobs in some way, thereby improving people's quality of life. Production and consumption of products are increasing. The cost of living will be offset by the decline and increase in the introduction of technology. Demand and supply will have a positive impact on the use of equipment. Many industries and companies will come out as a result. Equipment can also lead to unemployment or dismissal. To address this the nation must come up with alternative ways to create new jobs.

The use of the Internet, basically, helps to build new businesses. In this way, products are reached by more and more new customers through online advertising. The US economy may be there because of technology. It can be predicted that with a fresh start, the economy will continue to struggle. New products and services may be developed to meet their needs. Apple was named the most important company in the world, named after the top ten companies 'most donating to America' by donating \$ 198,692,197 in 2010.

## **ENVIRONMENTAL IMPACTS OF ARTIFICIAL INTELLIGENCE**

An invention such as that of AIs in cars can help prevent pollution, since there is a given reduction of accidents, congestion will be a thing of the past. The use of machines is likely to decrease the demand for the human workforce. This is simply because most of human work will be performed by machines. Conflicts are more likely to arise since there will be a situation of competition of how much can come up or control these machines. As greed for power increases, conflicts will arise.

It is predicted that AI will become hazardous if at all the machines developed in future will surpass human control. The machines will outdo the human capability such that no human could handle it. The use of machines and robots to help differentiate safe and hazardous waste will ensure a safe environment. Developments of machines that can clean up the atmosphere will with no doubt prevent both air and water pollution.

The use of artificial intelligence to help fight poaching will help conserve the wildlife. Finally, AI helps to maintain aesthetic value of landscapes e.g. the aesthetic value of the Great Barrier Reef was monitored by using artificial intelligence to score photos and videos.

## **ETHICAL CONSIDERATIONS OF AI**

### **The natural effects of artificial intelligence**

The introduction of AI-like vehicles can help prevent pollution, because instead of reducing the risks involved, congestion will be a thing of the past. The use of machines may reduce the need for human labor. This is because most human work will be done mechanically. Disputes can be very intense as there will be a state of competition over how much will happen or control these machines. As power greed grows, conflicts will arise.

It is predicted that AI will be dangerous if all the equipment produced in the future goes beyond human control. Machinery will drain human energy in such a way that no one can handle it. Operating equipment and robots to help separate safe and hazardous waste will ensure a safe environment. The development of air-conditioning systems will no doubt prevent air and water pollution.

The use of combat intelligence to help combat poaching will help conserve wildlife. Lastly, AI helps to maintain the aesthetic value of landscapes e.g. the value of the Grand Barrier Reef is monitored through the use of scoring skills to include photos and videos.

#### **Behavioral considerations of AI**

Instead of the human tendency to make decisions

Many governments and businesses have relied so heavily on AI that they have left it up to the decision-making process. With this growing trend, there is concern that decision-making will lose important emotional implications as machines may make destructive decisions because they only use the mind and their thinking will greatly improve until their cognitive function can find someone so irrational actions decide to destroy humanity. At that time, robots will be so advanced that it will be difficult to dismantle them.

#### **Market fraud**

There is a concern of ethics that the development and implementation of advanced AI in the financial markets could bring with it the potential for market fraud of the inefficiency of other market players. Even well-meaning managers may be able to take advantage of opportunities to benefit from other market players.

#### **Abuse of drones in war-torn countries**

Moral concern arises from the use of AI in war-torn countries. Some technological devices such as drones may be misused because instead of being used to dispose of food and health care in disaster-stricken areas, they can be used to drop bombs or as weapons themselves to thwart their original development goal.

## **CONCLUSION**

This research work focuses on the rise of artificial intelligence, AI. Some people have underestimated the value of this technology, which shows that it will contribute to job loss and that it could be exploited in financial markets and war-torn countries while others have embraced this development with open arms. In summary, there has been a discussion on the social, cultural, political, economic and environmental impacts. Also, a discussion was conducted on the ethical considerations of this technology. In conclusion, artificial intelligence is beneficial and helpful. Therefore, it is up to the scientists to make sure that they make sure that the desire to make new machines does not exceed their personal value. AI should ensure the improvement of people's lives rather than harm.

## **REFERENCES**

1. Antona, M., & Stephanidis, C. (2017). Universal Access in Human–Computer Interaction.
2. Rahul Reddy Nadikattu, "THE EMERGING ROLE OF ARTIFICIAL INTELLIGENCE IN MODERN SOCIETY", International Journal of Creative Research Thoughts (IJCRT), ISSN:2320-2882, Volume.4, Issue 4, pp.906-911, December 2016, Available at :<http://www.ijcrt.org/papers/IJCRT1133435.pdf>
3. Human and Technological Environments: 11th International Conference, UAHCI 2017, Held as Part of HCI International 2017, Vancouver, BC, Canada, July 9–14, 2017, Proceedings, Part III.
4. <http://doi.one/10.1729/Journal.24110>
5. Boddington, P. (2017). Towards a code of ethics for artificial intelligence.

6. Rahul Reddy Nadikattu, "FUNDAMENTAL APPLICATIONS OF MACHINE LEARNING ACROSS THE GLOBE", International Journal of Creative Research Thoughts (IJCRT), ISSN:2320-2882, Volume.6, Issue 1, pp.31-40, January 2018, Available at :<http://www.ijcrt.org/papers/IJCRT1133453.pdf>
7. Huang, D.-S., Jo, K.-H., Lee, H.-H., Kang, H.-J., & Bevilacqua, V. (2009). Emerging Intelligent Computing Technology and Applications. With Aspects of Artificial Intelligence: 5th International Conference on Intelligent Computing, ICIC 2009 Ulsan, South Korea, September 16-19, 2009 Proceedings.
8. In Maurer, M., In Gerdes, J. C., In Lenz, B., & In Winner, H. (2016). Autonomous driving Technical, legal and social aspects.
9. Nilsson, N. J. (1982). Principles of artificial intelligence. Berlin, Germany: Springer-Verlag.
10. Trapp, R. (1987). Impacts of artificial intelligence: Scientific, technological, military, economic, societal, cultural and political. Amsterdam: North-Holland.

