

Artificial Intelligence: its promise and Perils

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Artificial intelligence is the product of technological development in modern era. It initiate the process to copy the intelligence of man artificially. The working of human intelligence is simulated in the form of artificial intelligence. AI promise mankind's development

and prosperity in every field of life. Along with benefits it also bring about some disadvantages to mankind. Some persistent measures ~~are~~ ^{are} require to mitigate its negative impacts. According to **World Economic Forum (2022)**, Artificial intelligence would enhance unemployment by **2025**. It would unemploy **8.5 million** workers only in USA due to enhanced used of artificial ^{intelligence} based technology and automation. Artificial intelligence introduced prosperity in every field of life such as industries, education and health. It also facilitates in space exploration and completion of difficult tasks. However it also pose some disadvantage to mankind in the form of unemployment, privacy breach, propagation of fake news, loss of human control and formation of destructive weapons. Artificial intelligence has the power

to revolutionized every field of life but it also exhibit some negative impacts which require persistent measure to encounter.

Artificial intelligence is significant in the modern and globalized world. The nations who focused on the development and research of artificial intelligence are prosperous in the modern world. Japan is a country which leading others in the field of artificial intelligence and robotics. The first robot was developed in 1923 in Japan. Now Japan is a leading country and also prosperous due to major contribution of robotics in its exports. The significance of artificial intelligence cannot be denied due to its over-use in every sphere of life. None ^{of the} field ~~to~~ in the modern world is out of the influence of

artificial intelligence. Each sector like education, health, ^{and} industry ^{is} using it for the prosperity in modern era of twenty first century.

As far as the promises of the AI are concerned, it brings about a lot of benefits to the mankind. Industries ^{have} shifted toward automation in manufacturing and routine-based industries. After technological development the industrial sector become mechanized which now shift toward automation. For operation of machinery human assistance was required but in automation the machinery now complete its task autonomously. It facilitate the industrial sector for cheap production because labour wages are increasing with the passage of time. Along with industry, many companies have hired robots in restaurants and

as receptionist in offices. So, the industrial sector is benefited from the use of artificial intelligence in its manufacturing and routine-based industrial tasks.

Along with industries, education sector is also getting maximum benefits from the use of AI.

It is widely applicable in teaching learning process. According to a survey 60 percent of students are using AI-powered tools in learning. For example the increasing use of **Chatgpt** among students is the example of AI usage in education sector. This software was

designed to answer the question precisely according to the needs of the students.

Google maps along with chatgpt are also helpful in learning ^{about} geography, minerals, politics, resources of any country. Resultantly, AI has

its significance use in education sector and enhancing learning.

In addition to education sector, health sector is also facilitated by Artificial Intelligence. The advancement in the health sciences are due to the development of different machines for the diagnosis of disorders. The automation in CT Scan, MRI PET and EEG are the products of artificial intelligence. These techniques and their results which are generated from the computer, facilitate in prognosis of patient. Along with this, the use of pacemakers in heart for the conduction of nerve impulse is also the remarkable product of automation and ^{artificial} intelligence in health sector. Therefore for the prosperity and development of health sector, AI is the necessary tool.

Furthermore, AI-powered technology can benefit individuals in solving difficult problems. The cognitive abilities of technology like computer in the form of programming solve the problems immediately. The automatic dictionaries used in offices which can give the meaning of any difficult word which the staff encountered. The reasoning, problem solving and cognitive abilities of the AI-powered technologies can solve problems encountered in every field of life. Use of technologies with artificial intelligence facilitate in solving problems of mathematics, physics, engineering and other disciplines so, it can be said that AI can solve problems of individuals through its reasoning, problem solving and cognitive abilities.

Along with problem solving, AI-powered technology also facilitate in space exploration. The recent example of Indian launched Chandrayaan satellite is also AI-powered. According to researchers, by 2050 Mars will be explored and will be capable to accommodate human. This mission will be accomplished through use of robotics which build human settlements, facilitate in farming and production of greenhouse gases. These greenhouse gases would ^{form covering} prevent Mars from intense heat of sun. The space exploration went hand in hand to the development of AI-powered technologies. So, artificial intelligence is necessary for the exploration of space.

As far as the implications of the Artificial Intelligence are concerned,

firstly it enhance unemployment due to shift in automation in manufacturing and routine based industry. According **Pew Research centre**, a survey indicated that 72 percent of US public is concerned about the loss of jobs due to increased use of AI in the form of automation.

This shift in industry is beneficial for the industry owner but deadly for the socio-economic conditions of public. Loss of jobs will lead to deteriorated life style and living conditions. Therefore, it has negative impact on the employment of the public.

Along with increased ~~surve~~ unemployment, it will also leads to breach of privacy due to increased surveillance. Due to over-dependence on artificial intelligence the poivacy and hacking

of personal data are at risk. According to Capital one Breach Report (2022), the personal data of 100 million people were hacked. This increased surveillance and hacking of data deteriorated the situation. It decreased the privacy and confidentiality of consumers. The valuable information leaking can be threatened for an individual life. The integrity and self-esteem of people would be low because of this hacking. Along with personal information of public, the personal and sensitive information of politicians and other stakeholders can also create a lot of problems. Therefore, the breach of data is the product of negative use of artificial intelligence.

In addition to breaching privacy, it leads to propagation of fake and misleading information. The privacy

breaching led to leak of personal information. This information can be used against an individuals. The deep fake videos, speeches and phone calls of celebrities and politician cause a great impact on their overall career. The fake information would decide the future of the election results of politician and the fame of the celebrities. Along with politician and celebrity fake and manipulated information can bring a catastrophe an ordinary individual's life. This misleading information about an ordinary man, politician or celebrity can bring chaos and confusion in society. Therefore, misleading information caused by AI is the negative implication of AI usages.

Along with misleading information due AI, humans become over-dependent

on artificial intelligence which led to loss of human control on many AI powered technologies. The overdependence has two disadvantages for mankind. First, is the less use of human cognition due to presence of artificial intelligence. Human beings ^{utilises} automated devices for problem solving. As a result, their own cognition, problem solving and critical thinking would decrease with the passage of time. Second, the loss of human control on automated devices is the product of Artificial intelligence. The automatic car and its increased accidents predicts that complex decision are not possible for cars. In case of this type of automation, the machinery is automatic and out of the human control.

In addition to the over-dependency on AI, construction of destructive

weapons is the hazardous result of AI. The AI-powered, automatic weapons would become more destructive and ^{become} a threat for the peace of the world. It is a serious concern about the growing AI industry. This serious threat attracted the attention of **United Nations** discussion. United Nations banned the use of automation in weapons construction. The most destructive form of AI innovation is the use of AI-powered technology in weapons. Resultantly, it would be a existential threat for the survival of mankind.

AI can also bring about discrimination either racial or gender due to biased programs. The program developers are from the specific ethnicity with own

viewpoints. It would lead to the unfairness in products developments. The programming of the AI would be biased. For example the **Amazon** recruiting tool prefer male candidates more than female. It ~~ex~~ exhibit the gender discrimination. Along with this the facial recognition technologies are unable to identify the darker skin tone individuals. It leads to exacerbate the racial discrimination on the basis of white and dark. So, the AI-powered technology can bring more division in the disharmonized society of the modern era.

Some persistent measures are the prerequisite to mitigate the implications of artificial intelligence. Formulation of guidelines for regulation of artificial technology is the dire need of the hour. Worldwide governments

should take initiative similar to European Union Protocol of Data Safety which is used formulated for the wise and responsible use of data usage. Proper guidelines would be important to decrease the breach of privacy and spread of misinformation. It would protect the secret, sensitive and confidential information worldwide. In this way, the spread of chaos and confusion could be countered in a society.

Along with guidelines formulation, appropriate training and education ~~are~~ the dire need of the hour. Education and training about the responsible, moral and ethical use of artificial intelligence would mitigate its adverse impacts. Many universities offered courses related to ethics and morality.

related to artificial intelligence usage. It would protect the concerns of consumers and ^{would} make aware the developers about the appropriate use of artificial intelligence.

Along with awareness through education and training, fair programming without any bias is also recommended.

Fair programming should ensure to prevent the society from disturbance and chaos. It would further decrease the discrimination either on the basis of gender, race, language or ethnicity. This unbiasedness would not promote any specific individual in a specific field.

There should be check ^{on} the AI-powered technology to reduce its biasedness. The products should be passed from many trials to check its unbiasedness.

In a nutshell, Artificial Intelligence has brought about enormous development in the fields of industry, education, health, space exploration and problem solving. Along with developments and advancements it also showcasing some implications on society. It leads to loss of jobs, privacy breach, spread of misleading information and construction of destructive weapons. Therefore, through some ^{Persistent} ~~destructive~~ measures such as guidelines formulations, education and fair programming the problem/implications can be mitigated. Although AI create problems but it also create ease in jobs and daily life. So, through proper planning and wise use AI would help man in the prosperity of the nations.