

September - Mock - 6 English Essay

3- Artificial Intelligence : its Promise and Perils.

Outline

Thesis statement :

Artificial intelligence is a transformative field that has several promises and perils ; however , this advance technology can be used more effectively through certain suggestions.

A- Introduction : The promises and perils of Artificial intelligence (AI)

B- AI technology and its Advancement
(An Overview)

C- Promises of AI

- (a) Environmental conservation by addressing most pressing problems of the world
- (b) E-governance and eradication of corruption and other malpractices
- (c) Efficiency and automation in industries
- (d) Improvement in the decision making process

- (e) Advancement in research, learning, and education sector
- (f) Development in medical field and science

D. Perils of AI

- (a) Enhanced security risks and vulnerabilities
- (b) Biasness and partiality in AI
- (c) Privacy threats and related concerns
- (d) Massive job displacement
- (e) Issue of ethical dilemmas
- (f) Eroding human skills and expertise due to overdependency

E. Way Forward to Balance Promises and Perils of AI

- (a) Regulating ethical framework and international cooperation
- (b) Training programmes for AI related jobs
- (c) Interdisciplinary collaboration for the effective usage of AI
- (d) Strict implementation of cyber-security measures

F. Conclusion

Twenty First century is the age of science and technology. In fact, those countries of the world will make advancement and development which effectively use this technology.

AI has brought revolution^{to} the world in terms of its innovations and technological advancement.

Though developing countries, indeed, lag in this field; however, developed countries have really made advancement in this transformative field.

Additionally, as every coin has two sides, same is the case with AI, it has both advantages and disadvantages. Some of the promises of AI include that it is an effective tool in addressing environmental issues like climate change and global warming; AI technology can also help in eradicating corruption by providing good-governance; increase in efficiency and automation in industries; improvement in the decision making process; and advancement in research, learning, and in education sectors. On the other hand,

AI offers some perils like security risks and vulnerabilities, biasness and partiality, piracy threats, unemployment, ethical dilemmas, and overdependency of human. These challenges and disadvantages. The perils of AI represents a grim picture of this technology. As a

matter of fact, these challenges and disadvantages have put many questions on the sustainability of this field for mankind. However, there are certain certain way out through which its harsh impacts can be reduced, such as regulating ethical framework, international cooperation and collaboration, and strict implementation of cyber-security measures. AI is a transformative field that has many promises and perils; somehow, this advance technology can be used more effectively through certain suggestions.

Artificial intelligence (AI) refers to that technology in which machines are designed to think and act like a human-being. AI system used algorithms, process information, learn from it, and make predictions. It has two main types; weak AI, which performs specific tasks with constraints; Strong AI, which possess human like intelligence. This technology has really made advancement in this era. CHATGPT is one of its application, through which human being can find answers to infinite questions in chat format. Elon Musk about AI said, "AI is much bigger threat than nuclear technology if not controlled properly. It can lead to

massive unemployment. " Therefore, advancement of AI needs proper attention. Moreover, AI has application in various field like education, health, graphics designing, news casting, expert opinion, decision making, and so on. So, it can bring massive unemployment in terms of replacing human potential jobs.

The following paragraphs will describe the promises of AI in detail.

First of all, environmental conservation by addressing most pressing problems of the world is the main advantage provided by A.I. The most pressing problems include climate change, global-warming, poverty and so on. These are the collective issues of the world. AI can address its causes, effects, and remedies at global level. It can make the world community to become aware of these threats. A.I can preserve the future of the planet by reducing the growth of industrialization, pollution, and transportation. Therefore, AI can help in preservation of the environment which is its main main benefit.

Secondly, prevalence of e-governance and eradication of corruption is possible through effective utilization of AI technology. E-governance is one of the main attribute of good-governance, which focuses on transparency, accountability, and public participation. As, ~~the~~ There will be one window operation with the help of technology in e-governance, resultantly, red-tapism, corruption, and other mal-practices will be eradicated with the help of AI technology.

Thirdly, efficiency and automation in industries is because of AI technology. The output and production of industries has been increased. For example, a Robot machine can perform better and more task than a normal human being. AI has made laborious tasks easy to perform. It has brought automation in the industry. Now, several tasks can be performed with the help of clicking a button. Hence, increase in efficiency and automation in industries is because of AI technology.

Fourthly, improvement in the decision making process is also because

of the promises of AI. Decision making is a very technical process, and it takes a lot of analysis and time. However, by using AI tool, decision can be made in fractions of a second. AI uses specific algorithms, and it processes it, and performs the task of decision making. Therefore, advanced decision making is one of the main advantages of AI.

The fifth factor which provides promises of AI is that advancement in research, learning, and attainment of education tips. Now-a-days, any kind of research and learning can be made by using AI. For example, CHATGPT is one of the applications of AI, in which a user chats with AI and learns about his research and problems. This, in fact, has brought a revolution to the world of learning and research. Hence, education, research, and learning is more advanced due to the positive use of AI technology.

Lastly, development in the medical field and science is also one of the promises provided by AI technology. AI robots, now-a-days, are largely

used in medical surgery and operation. According to the finding of one of the report, AI operated robots perform better medical operation than traditional surgeons. This shows advancement of A-I sector in medical field. Therefore, AI has played an important role in the development of medical field and science.

The following paragraphs will describe the perils of AI in detail.

The first peril of AI includes enhanced security risks and vulnerabilities. Security risks involve threats to the economy, military, and important documents of a country or any organization. AI software and technology can be used for this malicious practices. It has increased the threats and vulnerabilities to the already threatened security risks. For instance, India using AI technology as a tool of hybrid warfare to attack on ideology of Pakistan. This confrontation has many ways to combat. As a result, security risks and vulnerabilities

have enhanced due to misuse of AI technology.

In the same manner, biasness and partiality in AI usage is also one of its main disadvantage. AI programmer developed the software in such a manner, that is it more tilted to his biases and ideology. Moreover, he designed the algorithm to be partial in decision making. For example, in 'CHATGPT' some models answered the question in specific pattern and does not provide the real and authentic answer. Therefore, biasness and partiality is the disadvantage of using AI.

In the same fashion, privacy threats and related concerns are the harm of using AI. Now-a-days, deep-fake videos and voice overlap on any fake content can be applied with the help of this technology. Several famous celebrities, politicians and so on are dubbed and hacked in this manner. Furthermore, this trend is getting public fame in as well.

That is why, concerns related to privacy threats ~~are~~ are genuine and perils of AI technology.

Similarly, mass job displacement is occurring because of the enhanced use of and development of A.I. The world is already faced with severe challenge of unemployment. With the advancement of A.I technology, millions of people are at risks to lose his/her jobs, such as Graphics designers, teacher, Surgeon, labour works (daily wagers), policy decision making, judges, and so on. Resultantly, it is the peril of AI that leads to massive job displacement.

Moreover, issue of ethical dilemmas is also one of the disadvantage of using A.I. Certain programmes and softwares are designed in a manner, which lacks ethical domain of certain community and religion. As a result, ethical problems is arising. In future, it can become a serious problem for young generation ethics. Therefore, issue of ethical dilemmas is one of the perils of AI.

Last but not the least, overdependency of human being on AI technology could lead to the eroding of human skills and expertise. In fact,

a time will come that human beings would lose most of his jobs, replaced by A.I machines. As a result, the human being will left to work in few limited areas. Several diseases, and problems would be faced by human being in the future. Hence, eroding human skills and expertise due to overdependency is main perils of A.I.

After discussing the perils of AI, the following paragraphs will describe the way forward to balance promises and perils of A.I.

Firstly, regulating ethical framework and international cooperation can help in bringing the balance to use A.I effectively. The designer of A.I system must be neutral and impartial. Algorithms for A.I machines shall be based on universal ethical code. Also, world community shall cooperate in this regard. Then, it can bring balance between the perils and promises.

Secondly, there should

be proper training programmes for AI related jobs. As, more and more people will lost their jobs in future due to AI; therefore, it is sine qua non that people should be trained to get the AI related job, so that unemployment can be reduced.

Thirdly, the balance between the promises and perils of AI can be brought through interdisciplinary collaboration for the effective usage of AI. It include scientist, educationist, medical specialists, and so on. They all should be ^{on} one agenda that is to use AI in an effective manner, which can ~~ben~~ give benefits to all.

Last but not the least, strict implementation of cyber security measures can bring the balance between promises and perils of AI. There should be proper rules, regulations, and law for violation of doing cyber crimes. Strict measures be taken in this regard. The world community must cooperate and collaborate in this manner. As a result, cyber-crimes can be reduced to a minimum extent by strictly

and fairly implementing the controlling measures.

To conclude, it can be said and accepted that artificial intelligence is a transformative field that has several promises and perils; however, this advance technology can be used more effectively through certain suggestions. AI technology has advanced by leaps and bounds and it has become the integral part of various fields like education, health, governance, research, designing, decision making and so on. Moreover, it has many promises which include environmental conservation, controlling corruption through e-governance, automation in industries; improvement in decision making, and advancement in learning and research. Without any doubt, AI has revolutionized the world in many ways. Besides, it has some perils, such as enhanced security risks and vulnerabilities, biasness and partiality in AI, privacy threats, job displacement, ethical dilemmas, and overdependency of human skills. However, these disadvantages can be brought under control through certain measures which include

regulating ethical framework and international cooperation; training programmes for new A.I related jobs; interdisciplinary collaboration for effective usage of A.I; and strict implementation of cyber-security measures. These measures can play an important role in making effective utilization of A.I technology for human being. Moreover, it depends upon the human being intention that for what purpose he/she designed and uses this technology. Indeed, A.I itself is just a technology. However, it is the designer and user, who decides that for what purpose it is to be used and explored.
