

Mankind Faces the Challenge of using Artificial Intelligence responsibly.

Outline

1- Introduction:

Thesis Statement:

Artificial Intelligence has revolutionized the field of science and Technology. Although, there are challenges posed by Artificial Intelligence that need to be addressed. However, many people believe that Artificial Intelligence has proven to be blessing in disguise for human society due to its application in the field of IT, Science, healthcare and business.

2- Artificial Intelligence can become a serious problem now-a-days.

3- Challenges of AI that human beings faced by using this Technology.

3-1: AI machines need a huge amount of cost which faced by mankind.

3-2: By using AI machines / Technology humans become lazy day by day.

3-3: Advancement in AI is leading towards

a jobless future.

3-4: Misuse of AI's involvement in education.

3-5: Lack of emotion in Artificial intelligence is also a challenge faced by mankind.

3-6: Potential misuse of AI can lead to weaponization and devastation of humanity.

3-7: Spread of misinformation through AI based bots.

3-8: Trust deficit is also challenge by using AI.

3-9: Humans face data Privacy and security challenge by using Artificial Intelligence.

3-10: Loss of control of AI can have catastrophic consequence on human society.

4: Anti-argument of the other side of coin:

4-1: AI is used in reduction in human error.

4-2: The best use of AI is Digital assistance.

5: The way Forward:

6: Conclusion

Essay

In 2018, the world's first ever Artificial intelligence versus physicians competition was held in China. In half time, Artificial intelligence defeated physicians by **20%** with higher accuracy rate. Such an outstanding performance has made Artificial intelligence important in every aspect of life. Artificial intelligence make it possible for machines to learn from experiences, adjust to new inputs, perform human-like tasks and give fast and accurate results. **For example** Alphazero, launched by Google AI, learned chess by itselfⁱⁿ just 4 hours and beat a chess expert. However, AI has many disadvantages. It lacks creativity & will give unemployment. **For example** Forbes useful used students might misuse AI-generated text and content generation tools to manipulate perceptions and create inauthentic narratives on social media platforms, leading to issues such as misinformation or targeted harassment of others.

students or educators.

The ability to create a machine that can stimulate human intelligence is no small feat. It requires plenty of time and resources and can cost a huge deal of money. AI is a powerful tool that can be used in many different ways. And people faced many difficulty to used and maintain this technology. AI also needs to operate on the latest hardware and software to stay updated and meet the latest requirements, thus making it quite costly. **For example**, Training AI models requires computational resources, which come at a cost. The training of AI models is often done of GPUs, which are expensive. For example, the **Tesla V100 GPU** costs around **\$10,000**. The maintenance of AI system also requires computational resources. **For example, Google's Deep mind AlphaGo System** required up to **1.920 GPUs** and

types to operate. Hence, it is analysed that mankind face the challenge of using this (AI) machine which needs a huge amount ^{to fulfill} expenses and it affects on human activities and makes human lazy.

Automating everyday work is one of the ways AI has made people lazy. Machines that can carry out the same duties more rapidly and correctly have taken the place of many jobs, especially in the industrial and service sectors. As a result, there is no longer a need for human labor, giving people more free time. The ability of AI to provide fast access to knowledge and answers to queries has also contributed to the laziness of man. People may now quickly and readily obtain solutions to practically any topic without putting any effort forth because of the growth of the internet and search engines. Thus, it is said that human becomes

Lazy day by day due to use of Artificial intelligence and which is lead to lack of education.

One of the biggest misuses of AI's involvement in education is the potential job displacement of teachers and educators. AI-powered tools can replace important tasks teachers perform, such as grading and providing feedback. Students no longer have to rely on their own knowledge and skills to get answers, which has resulted in a reduction in problem-solving ability and critical thinking. To sum up, by using (AI) Artificial intelligence mankind face challenges regarding education which lead to the labourers jobless in future.

The integration of AI into the work force also raises concern about job displacement and inequality. As tasks are automated

workers who are not able to adapt to new roles may find it difficult to secure employment. This could lead to an increase in unemployment and income inequality. Artificial intelligence could displace roughly **15%** of workers, or **400 million** people, worldwide between **2016** and **2023**. AI is likely to displace some jobs. Certain tasks that are routine, repetitive or dangerous may be automated by using AI. This could lead to job losses in industries such as manufacturing, transportation and customer services. In **March**, investment bank Goldman Sachs predicted in a report that **AI** could eventually replace **300 million** full-time jobs globally and affect nearly **1-5th** of employment with a particular hit to white-collar jobs. Hence it is concluded that by using (AI) mankind faces the more risk of no job opportunities in future, and it can lead to lack of emotions.

Lack of emotions in Artificial intelligence is also a challenge faced by mankind. Since early childhood, we have been taught that neither computers nor other machines have feelings. Human function as a team, and team management is essential for achieving goals.

AI and neuroscience researchers agree that current forms of AI cannot have their own emotions, but they can mimic emotion, such as empathy. Synthetic speech also helps reduce the robotic like tone many of these services operate with and emit more realistic emotions. AI does not give the full picture of how someone is feeling. **A notorious example** is a hiring system that uses job candidates' facial expressions and voice patterns to determine an "employability score". Like other forms of technology, emotion AI can display biases and inaccuracies. To summarize, that by using AI mankind faces challenges regarding

team work due to its emotionless factors which led to the spread of misinformation through AI based bots.

The rapid progress of Artificial intelligence has raised the ^{spread} threat of misinformation through AI based bots. "This tool (AI) is going to be the most powerful tool for spreading misinformation that has ever been on the internet" said **Gordon Crovitz**, a co-chief executive of News Guard a company that tracks online misinformation and conducted the experiment last month. Crafting a new false narrative can now be done at dramatic scales and much more frequently - its like having A.I agents contributing to misinformation. **ChatGPT** is far more powerful and sophisticated. Supplied with questions loaded with disinformation, it can produce convincing, clean variations on the content en masse within seconds without disclosing its sources.

OpenAI researchers have long been nervous about chatbots falling into nefarious hands, writing in a **2019** paper of their "concern that its capabilities could lower costs of disinformation campaigns" and aid in the malicious pursuit of "monetary gain, a particular political agenda, and/or a desire to create chaos or confusion."

Therefore it is also a major challenge that people are facing the world over as it also led to weaponization and devastation of humanity.

The misuse of AI in weaponization is a burning challenge faced by human beings. As it is often the case, technological advancements have been harnessed for the purpose of warfare: when it comes to AI, some are keen to do something about it before it's too late.

In a **2016 open letter**, over **30,000** individuals, including AI & robotics researchers, pushed back against the investment in AI-fueled autonomous

weapons. "The key question for humanity today is whether to start a global AI arms race or to prevent it from starting" they wrote. This prediction has come to fruition in the form of lethal Autonomous weapons Systems, which locate and destroy targets on their own while abiding by few regulations. Because of the proliferation of potent and complex weapons, some of the world's most powerful nations have given in to anxieties and contributed to **Tech Cold war**. Many of these new weapons pose major risks to civilians on the ground but the danger becomes amplified when autonomous weapons fall into the wrong hands. If political rivalries and warmongering tendencies are not kept in check, artificial intelligence could end up being applied with the worst intentions. This is a serious challenge faced by mankind due to AI, which can lead to **Trust deficit**.

One of the most important

factors that are a cause of worry for the AI is the unknown nature of how deep learning models predict the output. How a specific set of inputs can devise a solution for different kinds of problem is difficult to understand for a layman. Many people in the world don't even know the use or existence of Artificial intelligence, and how it is integrated into everyday items they interact with such as smartphones, smart TVs, Banking and even cars. More than **Two-Third - 67%** of respondents would not trust AI due to man scam issues, which raises trust deficit between people, which led the challenge of data privacy and security.

Probably the greatest challenge facing by humans due to (AI) is data privacy and security. AI's industry is the need to reconcile AI's need for large amounts of structured or standardized data with the human right to privacy.

AI's hunger for large data sets is in direct tension with current privacy legislation and culture. Current law in the **UK** and **Europe** limits both the potential for sharing data sets and the scope of automated decision making. These restrictions are limiting the capacity of AI. During the **COVID-19** pandemic, there were concerns that it would not be possible to use AI to determine priority allocation of vaccines. More broadly, some AI designers said they were unable to contribute the **COVID-19** response due to regulations that barred them from accessing large health data sets. This is a huge problem of data security and privacy in AI which led to the human faces catastrophic destruction in society.

with the Progressive development of AI, AI can cause hazardous impacts on human society. For example, ⁽ⁱ⁾ A huge social change that disrupts the way we live in the

human community will occur. Human kind has to be industrious to make their living but with the service of AI, we can just program the machine to do anything for us without even lifting a tool. Human closeness will be gradually diminishing as AI will replace the need for people to meet face to face for idea exchange. AI will stand in between people as the personal gathering will no longer be needed for communication.

(ii) wealth inequality will be created as the investors of AI will take up the major share of the earnings. The gap b/w the rich and poor will be widened. The so-called 'M' shape wealth distribution will be more obvious.

In the previous part, challenges faced by mankind due to the use of Artificial Intelligence discussed there. But, now in the remaining paragraphs its antiargument will be explained.

On one hand, human face challenges due to use of Artificial

intelligence & humans also get benefit by using AI such as it is used in reduction in human error or in digital assistance.

One of the biggest advantages of (AI) is that it can significantly reduce errors and increase accuracy and precision. The decision taken by AI in every step is decided by information previously gathered and a certain set algorithms. when programmed properly, these errors can be reduce to null. **For example**

An example of the reduction in human error through AI is the use of robotic systems, which can perform complex procedures with precision and accuracy, reducing the risk of human error and improving patient safety in healthcare.

On the other hand, AI also has best use in digital assistance. Some of the highly advanced organisations use digital assistants to interact with users which saves the

need for human resources. The digital assistants also used in many websites to provide things that users want. We can chat with them about what we are looking for. Some chat bots are designed in such a way that it becomes hard to determine that we are chatting with a chatbot or a human being. **For example** we all know that organizations have a customer support team that needs to clarify the doubts and queries of the customers. Using AI the organization can set up a voice bot or chatbot which can help customers with all their queries. We can see many organizations already started using them on their websites & mobile applications.

The challenges faced by mankind due to the use of (AI) require a thoughtful and proactive approach to pave the way forward. Emphasizing the following principles will be essential to ensure a positive and

positive and responsible integration of AI into human lives. Regulatory standards to create a harmonized legal framework to safeguard against potential risks and misuse, and stricter data protection laws, secure data storage and enhanced cyber security protocols are necessary to mitigate the risk of data breaches and unauthorized access. Furthermore, education and upskilling, collaboration and transparency and robot testing and evaluations are some serious steps can be taken to overcome the risk of challenges that humans are facing due to the use of Artificial Intelligence.

To conclude it is stated that there are great many challenges faced by mankind by using AI; however, it is predicted that AI would also be beneficial for mankind. Many challenges are faced by humans include misuse of AI's involvement in education and spread of misinformation through

AI base jobs. Further challenges such as AI makes human lazier, and the excessive use of AI leading towards jobless future. Though it is hope that AI can still be used to make human prosperous and provide comfort. Even it is also hoped that one day the GDP of the world also increase due to the Artificial intelligence.