

Ethical use of AI as a Contemporary challenge.

OUTLINE:

1 Introduction

The ethical use of Artificial Intelligence is a contemporary challenge in today's world adversely impacting the humanity. However, the use of AI can be regulated through better policies and regulations.

2 How An overview: What is AI and and limitations in using AI ethically.

3 What are the contemporary challenges due to unethical use of AI.

3.1 - Misuse of AI for disinformation and manipulation

3.2 - Biased data training results in AI bias and discrimination

3.3 - The Use of Autonomous Weapons System

3.4 - Challenges to ensure accountability and transparency

3.5- Big tech companies terminating their ethical teams

3.6 - Threat to Privacy and consent

3.7 - Data Security Challenges

3.8- AI ethics is constrained by competition.

6 Conclusion

4 What are the implications of these ~~data~~ contemporary challenges?

4.1- Climate degradation due to AI.

4.2- Misuse of AI in education

4.3- Adverse effect of AI on entertainment industry

4.4 Cultural homogenization due to algorithmic control.

5 How to overcome these challenges?

5.1- Data protection and privacy laws

5.2 - AI ethic education and public awareness

5.3 - Development of Global Ethical frameworks

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6 Conclusion

According to a report by Stanford HAI the adoption ^{rate} of AI by companies has increased over the years. In 2022 17% companies were using AI tools which surged to 55% in 2023. However the rise or excessive use of AI comes with its own contemporary challenges. These challenges include the ethical use of AI in big tech companies, challenge to ensure transparency and accountability. AI ~~has~~ bias and discrimination also results from misuse of AI. The unethical use of AI is also a threat to privacy and consent, furthermore creating challenges for data security. A huge threat ~~to~~ in today's world is the ethical use of Autonomous Weapons system driven by AI. Misinformation and manipulation also ~~is~~ comes from misuse of AI. These challenges have further their own implication i.e. misuse of AI in education, climate degradation

due to AI. It has also adverse effect on entertainment industry, furthermore cultural homogenization is also born due to algorithmic control. But the governments and organizations can overcome these challenges due to unethical use of AI by implementing data protection and privacy laws and by the development of Global Ethical Frameworks. Lastly by introducing AI ethics education and raising public awareness.

3.1 The most common challenge is the misinformation and manipulation due to use of AI. Information is manipulated through AI and shared through social media platform to misinform the mass and creates chaos and confusion among the people. A study by Morchal with the name of Generative AI misuse reported that 200 cases of real world due to AI misuse including political propaganda, financial scams and pornographic deepfakes. This misinformation

and manipulation is usually used by rival countries to start a propaganda against each other. The unethical use of artificial intelligence adversely manipulate the authentic information.

3.2 A major threat to humanity is the use of autonomous weapons system. AWS is driven by Artificial Intelligence without human contact. These autonomous weapons are controlled by humans far away from the system. These AWS are in the form of Drones and Robots. Recently in Israel versus Iran war, Israel used AI driven drone attacks to eliminate the leadership of Iran in their own houses. Furthermore, According to UNIDIR 2022 report that at least 40 countries are developing AI-based weapon system. The rise in manufacturing of AWS and using it more frequently will make conflicts escalation unpredictable. In the on-going wars and conflicts in world, autonomous weapon system is a major threat.

4.1

The excessive use of Artificial Intelligence is resulting in climate degradation. The growing deployment of Artificial intelligence necessitates considerable computational power contributing significantly to carbon emissions and environmental degradation. Large-scale AI models require extensive energy for their training. Numerous studies suggest that a single large AI model uses extensive energy and produces carbon dioxide as much as five average cars release CO_2 over their lifetime. This release of CO_2 by AI-models contributes adversely to climate degradation. AI models indirectly accelerate carbon emissions contributing significantly to environmental degradation.

4.2

Another impact of unethical use of artificial intelligence is negative effect on education. Students are misusing artificial intelligence for their education purpose. These adverse effects include plagiarism - copy pasting of content with the help of Chatbots. Furthermore students use AI bots

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working and making it themselves. Due to
excessive use of AI bots, it prevents them
from properly showcasing their
creativity and developing their own
creative thinking skills. The freely
available AI bots for example Chatgpt, MetaAI
etc are excessively used by students impacting
their own true creativity.