



UNIVERSITY OF
WOLVERHAMPTON

5CS037— CONCEPTS AND TECHNOLOGIES OF AI

Assignment-2

Ethical Aspects of Artificial Intelligence

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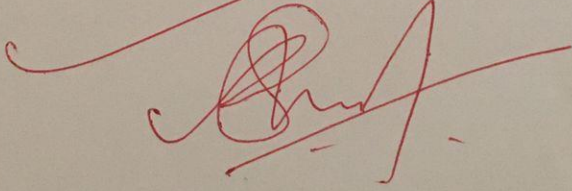
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Abstract

Developing ethical Artificial Intelligence (AI) is critical for ensuring that AI technologies are used properly. This study presents a clear paradigm for developing ethical AI. It includes being transparent about how AI makes decisions, treating everyone equally and safeguarding people's privacy.

The approach encourages people to accept responsibility for the outcomes of AI and gives them greater authority. Its aims is to develop AI systems that promote justice and take jobs into consideration instead of harming society. Following ethical standards is critical for developing AI that people can trust, is fair and equitable and benefits everyone.

Table of Contents

1.Introduction:	1
2.AI and Work	2
3.Inititiatives in the field of Ethical AI	4
3.1. European Commission's Ethics guidelines for reliability in AI:	4
3.2. Partnership on AI (PAI):	4
3.3. AI for Good Global Summit	4
4. General Framework/Principle for the Creation and Application of AI	5
4.1. Visibility and Interpretation:	5
4.2. Equality and independent AI:	5
4.3. Responsibility and ethical behaviors:	5
4.4. User Freedom and Multicultural Participation	5
4.5. Safety guarantees:	5
5.Discussion	7
6.Conclusion:	8
References	9

Table of figures:

Figure 1: AI Ethics & Ethical AI	2
Figure 2: Artwork of AI	3
Figure 3:AI Employment of Balancing Emotions	4
Figure 4:Life cycle of AI	6
Figure 5:Ethical Generative AI	7

1.Introduction:

Artificial intelligence (AI) has become a hot topic and hopes to take the lead in the future. AI is the technology that performs tasks by replicating human intelligence and continuously enhancing itself depending on the collected data. As per the definition provided by the emeritus Stanford professor Jhon McCarthy, artificial intelligence was described as “The art and science of developing intelligent machines.” (Manning, 2020). Ethics is a branch of Knowledge those studies with moral principles and determines what is morally right or wrong.

The ethics of AI involves the concepts, Values and guidelines governing the creation, utilization, and impact of AI system. And Ethical AI takes into consideration subjects such as fairness, honesty, responsibility, privacy, and the overall social effect of AI technology. (Lawton, 2024)Developing Ethical AI is critical in the quickly changing landscape of machine learning. As AI becomes a pivotal role in shaping our future, considering ethical issues becomes critical.

Ethical AI reduces biases, promotes honesty, and ensures responsibility so that we can increase public trust and acceptance. Ethical AI helps to promote moral and environmentally friendly, technological advancement by maintaining privacy, limiting social disturbance, and enhancing human well-being. It promotes responsibility for developers and users to protect against discrimination and helps to ensure AI's long-term sustainability by assessing possible challenges. In short, Ethical AI is about technological advancement that benefits society, protects human rights and aligns with global values.

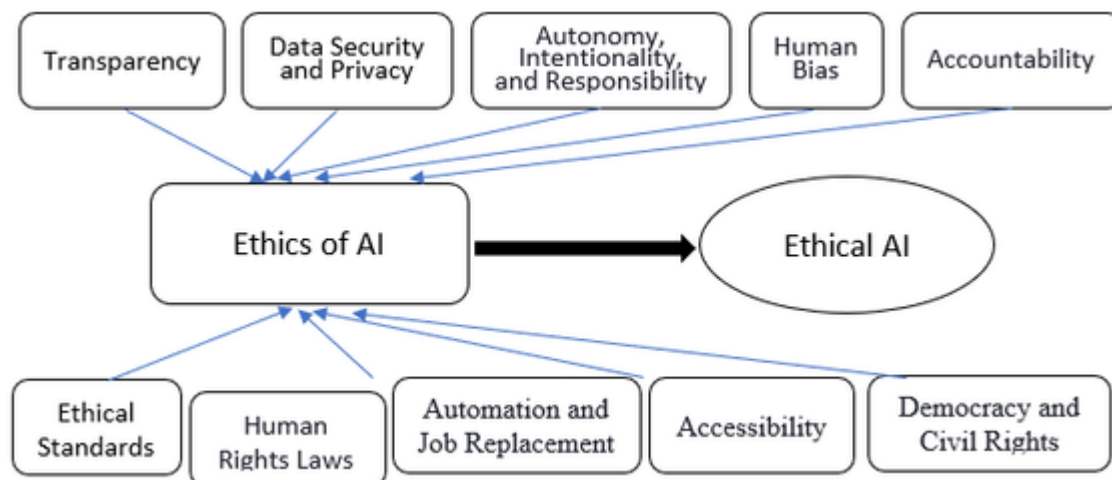


Figure 1: AI Ethics & Ethical AI

2.AI and Work

The interesting unique work created by AI in fields like Painting, music and storytelling has been engaging yet it highlights significant issues. Investigating machine learning things increases complexity issues. Should credit be given towards the AI creators as the owners who share knowledge or maybe the AI creature itself? This represents a tough issue that requires properly specified rules. Accurate evaluations are required to define the responsibilities played by various participants during the method of innovation.

AI-generated materials that include literature, music and art raise several ethical questions particularly in relation to ownership, creativity, and copyrights. As AI systems produce creative works on their own so it becomes more difficult to identify the true copyright owner.

Copyright and credit concerns are crucial. To manage ownership of these works it is essential to set ethical standards. Appropriate attributes are essential for appreciating each side's involvement in the creative process.

Furthermore, the trustworthy elements include possible error in computer-generated .AI systems educated on bias, information may unintentionally propagate discrimination or generate problematic materials. (Gibbs, 2023)

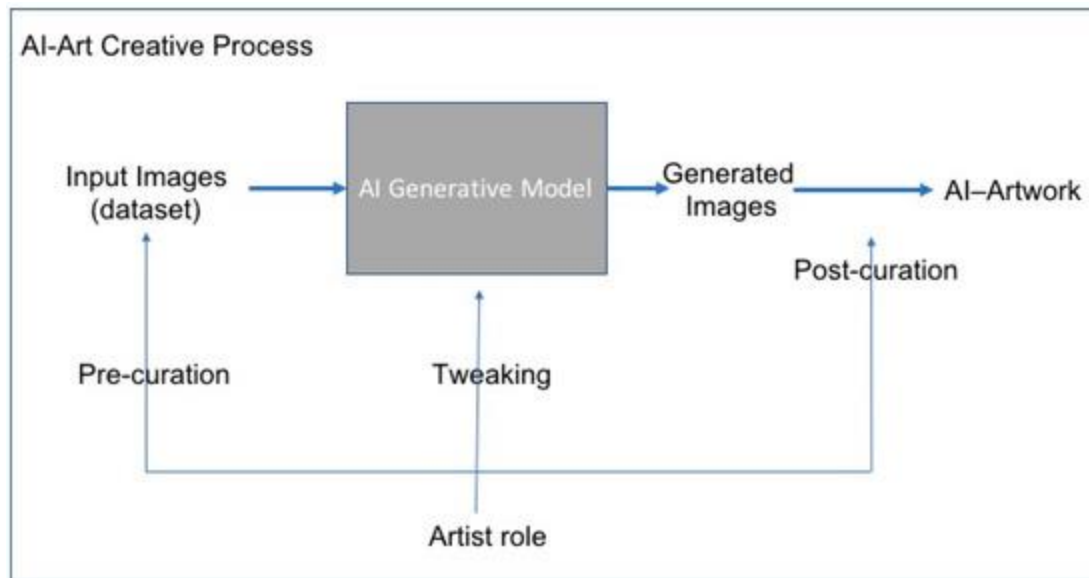


Figure 2: Artwork of AI

Taking about how AI impacts fields of work, it is critical to consider justice and inclusiveness. When automation and AI take over specific jobs, it might be problematic. So, the remedies to this problem must be equal, include everyone and consider what it does and how it impacts society.

To deal with changes in work environments caused by technology, we need to assist employees to build new skills. Employers and governments must invest in programs that educate workers in the necessary skills for the changing employment landscape. This is the fair and appropriate thing to do to make sure that everyone can adjust to technological advancements.

Furthermore, it is morally required to provide a strong social safety net especially for those who lose their jobs due to AI. This includes receiving unemployment compensation and assistance in finding new jobs. It is critical to look after individuals and ensures that they are not impacted too much because of job shifts caused by technology. (ELGAMMAL, 2023)

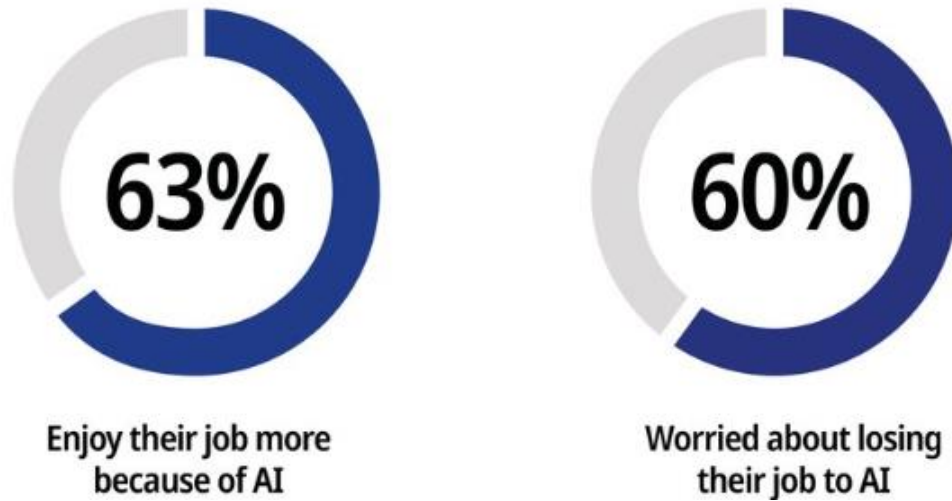


Figure 3: AI Employment of Balancing Emotions

3. Initiatives in the field of Ethical AI

Numerous national and worldwide projects are designed to encourage fairness, open and moral artificial intelligence (AI) to solve several kinds of ethical problems connected to AI technology.

3.1. European Commission's Ethics guidelines for reliability in AI: The European commission created rules that guarantee the evolution for implementation of accurate AI. These guidelines with a priority on values like justice, accountability, transparency, and user empowerment, offer developers and organization a framework for developing machine learning systems that adhere to the values of ethics.

3.2. Partnership on AI (PAI): The partnership on AI (PAI) is a collaborative that sets in combination executives in companies, academic circles, and groups from civil society to address ethical issues in AI with a focus on encouraging transparency, participations, and inclusiveness in AI developments.

3.3. AI for Good Global Summit: The AI for Good Global Summit arranged through the International Telecommunication Union (ITU) in partnership with the United Nations, strives to handle issues as well as develop for using AI in critical sectors like health services, education and sustainable development this program intends to make use of AI

for many opportunities in positive social impact while also addressing ethical concerns ,thereby encouraging global debate on responsible and effective AI deployment .

These initiatives focus on investigation, establishing policies and public awareness campaigns to deal with moral issues with AI, such as Algorithms bias, lack of honesty and loss of jobs.

4. General Framework/Principle for the Creation and Application of AI

The wide-ranging structure to obtain ethical AI advancement gets influenced from several global initiatives. It is based on essential concepts that encourage developers and organizations to prioritize transparency, equality, responsibility, and measures to empower users and protect their confidentiality.

4.1. Visibility and Interpretation: The structure emphasizes the need to be open and encourages developers to create intelligible AI techniques for making decisions. Clear algorithms descriptions promote trust as well as responsibility.

4.2. Equality and independent AI: The strategy highlights justice and the significance of continually evaluating as well as removing discrimination in AI applications. This makes sure all people receive equal opportunity while avoiding and increasing current inequality.

4.3. Responsibility and ethical behaviors: The framework underlines the clear ownership and calls for the implementation of repairs procedures in the event of failures and harmful effects. Ethical behaviors should be encouraged through the AI lifecycle.

4.4. User Freedom and Multicultural Participation: The design supports user empowerment and emphasizes the necessity of diversity and varied viewpoints in AI systems. Design should Improves user understanding and control.

4.5. Safety guarantees: The platform focuses on user privacy and encourages developers to include protection for private data. A dedication to privacy regulation is critical for ethical AI system creation.

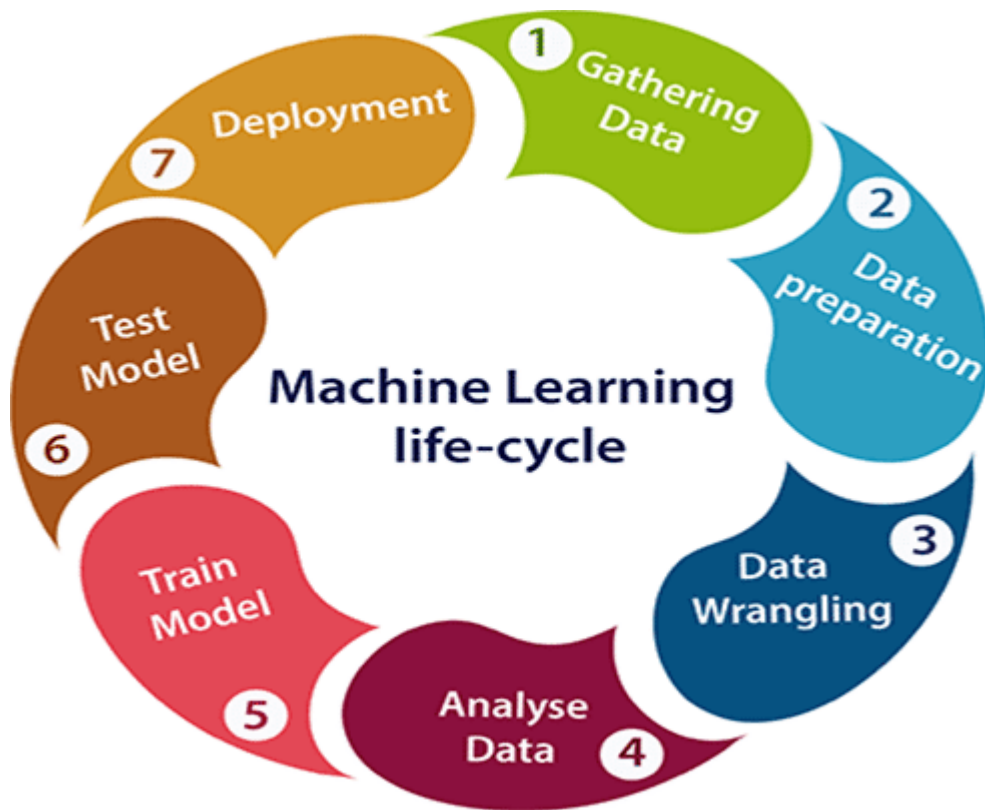


Figure 4:Life cycle of AI

5.Discussion

Building ethical AI is like establishing guidelines to make sure that it benefits everyone while doing no harm to anybody. It involves guaranteeing that artificial intelligence is transparent, equitable and harmless to humans. The intention is to be open to making decisions of AI, fix biases when needed, accept responsibility for error and maintain security. It's important to think about other factors besides technology. It's about considering job possibilities, giving equal chances, and including humans in AI decision making. The following factors principles results in trustworthy, productive AI that reflects a person and social values. To put it simply, developing autonomous technologies that respect privacy, handle people equally and improve civilization.

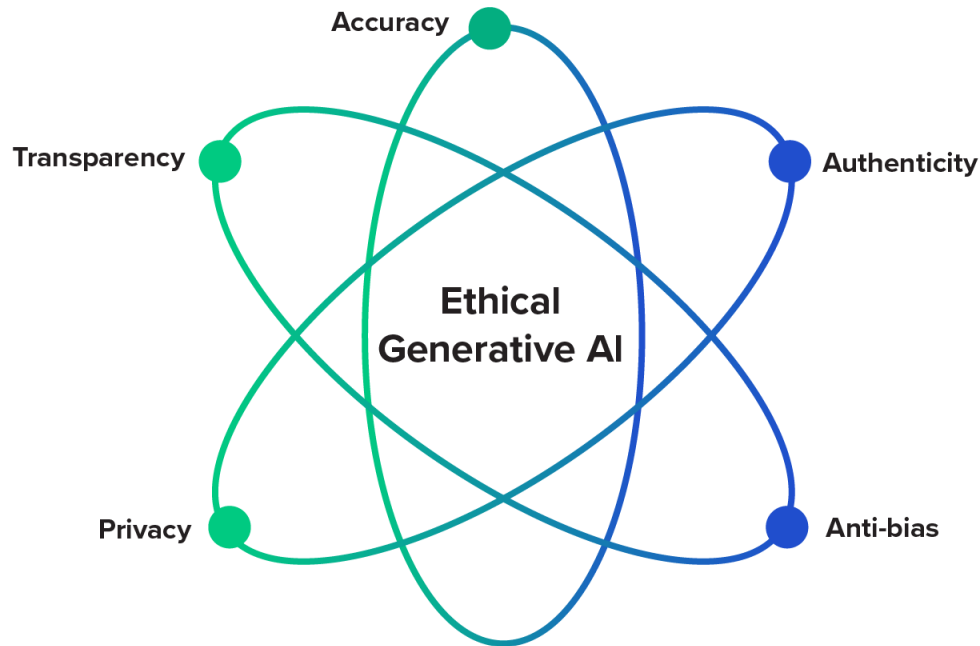


Figure 5: Ethical Generative AI

6.Conclusion:

To summarize, the need for ethical AI is clear in its ability to help society without damage. The framework outlined, inspired by worldwide efforts, highlights the importance of flexibility, justice, loyalty, user self determination and privacy protection. Tackling ethical considerations in AI is critical because it builds public trust, minimizes prejudices, and guarantees fair progress in technology. As Artificial intelligence continues to change our future, ethical values become increasingly important in reducing social effects, safety and improving equality. These guidelines inspired firms and programmers to create AI based systems that respect people's worldviews, which will ultimately result in a time where technology will safely and successfully serve humanity.

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