

TOPIC : UNETHICAL USE OF AI TOOLS IN EDUCATION AND ITS CONSEQUENCES.

Outline

1- INTRODUCTION.

2- UNETHICAL PRACTICES IN AI EDUCATION TOOLS

A- Bias in AI algorithm affecting student evaluation

B- Invasion of Privacy through excessive data collection

C- Outcomes in automated decision making

3- CONSEQUENCES FOR STUDENT

a-) Erosion of teacher student relationship

b-) loss of autonomy in ~~the~~ decision making

c-) Professional implications and Job insecurity

4- SOCIETAL CONSEQUENCES

a-) Systemic biases in education

b-) Erosion of trust in educational institutions and technology

5- LACK OF TRANSPARENCY AND ACCOUNTABILITY

a- Limited accountability for the developers and implementers of AI tools

b- Need of transparency and accountability.

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6- Legal framework and regulations

a- The importance of Adapting existing laws to address AI ethics

b- Lack of comprehensive regulations governing AI in education

7- Public awareness and Advocacy

a- Raising awareness about the potential consequences of unethical AI use in education

b- Empowering students, Parents, and educators to advocate for ethical AI practices

8- Conclusion

Artificial Intelligence AI is like giving brains to computers -

John mc carthy is considered the father of the artificial intelligence.

He was an American Computer Scientists . He was the first founder of Artificial intelligence.

Artificial intelligence is playing vital role in the society and science world. Artificial intelligence has both positive and negative consequences -

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Artificial intelligence refers to the machines. There is contrast to the natural ~~and~~ intelligence ^{of human} and animal intelligence, machines perform functions such as learning, planning, reasoning and problem solving.

Artificial intelligence has brought revolution in the world of technology. Artificial intelligence means making machine that can think like humans. On the basis of capability, AI can be divided into mainly three ~~parts~~ types - narrow AI, General AI and Super AI.

Narrow AI is basic kind of AI, which is capable of completing dedicated tasks with intelligence. The current version of narrow artificial intelligence. narrow AI can perform only specific

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Tasks - It is programmed to do specific task - such as play chess, checking weather etc

General AI defines the machines that can show human intelligence. We can say, machines, with General AI can successfully perform any intellectual task that can human do.

Super Artificial Intelligence that is self aware, with cognitive abilities. It is a level where machines are capable of doing any task of human can do with cognitive properties.

On the basis on functionality AI divided into four types,

Reactive machines, Limited memory, Theory of mind and self awareness.

Reactive machines are the basic type of Artificial Intelligence

which do not store memories or past experiences for their action. These type of Artificial machines only focus on current scenarios, with the best possible action.

Limited memory can store some memory or past experiences for a limited time period. Some examples of limited memory are self-driving cars.

Theory of mind is type of Artificial intelligence which are capable of understand human emotions, and interact with the human in their way. However, such AI machines are yet not developed and developed and researchers are making efforts for creating such AI machines.

Self awareness AI is the future of Artificial intelligence.

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which will have its own awareness, sentiments, and consciousness - This Artificial Intelligence is one of

AI is hypothetical concept and will take a long turned and challenge to create such AI.

Science and technology has played an important role in the countries development since its funding.

Science and technology has created both negative and positive impacts in the modern world. Pakistan has a large pool of scientist ~~of~~ engineers doctors and technicians assuming an active role in ~~role~~

in science and technology. Artificial intelligence has the both potential to bring both benefits and risk to education,

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and it's crucial to address the ethical issues associated with its use.

Unethical Practices in Artificial Intelligence AI education have become a growing concern as these technologies become more integrated into educational settings.

One significant issue is the presence of unfair bias in Artificial Intelligence Algorithms, impacting students' assessments and opportunities. Artificial Intelligence is designed to make decisions based on patterns and data inputs, but if the training data used to develop these algorithms is biased, it can result in discriminatory outcomes. In education, biased algorithms may lead to unfair evaluation of students, affecting their academic progress and opportunities.

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The invasion of privacy through excessive data collection in artificial education tools raises significant ethical concerns, affecting students and educators alike. These tools often gather a vast amount of data, ranging from academic performance metrics to personal information, to enhance their functionality and tailor learning experiences. Students and educators may not fully be aware of the scope of data collection or the potential consequences of sharing sensitive information. Automated decision making in artificial intelligence tools used in education can have profound consequences, influencing various aspects of student academic journey and educational outcomes. While these tools aim to enhance efficiency

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and objectivity, their impact is not always equitable, and there are notable consequences associated with the decisions they make.

Artificial intelligence has the potential to reshape the dynamics of the traditional teacher-student relationship, leading to concerns about the erosion of vital connections.

Depersonalization of the learning experience. The algorithm may not fully understand the individual needs, emotions, and subtle nuances of each student, leading to a sense of educational detachment and potential decline in the quality of interpersonal interactions.

The integration of artificial intelligence in various sectors, including education,

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can have consequences for students that extend to their professional lives, potentially leading to professional implications and job insecurity. There are several factors contribute to these consequences, skill mismatch and job displacement, impact on entry level position, job insecurity and economic shifts, ethical considerations and career choices, and emergence of new opportunities.

The integration of Artificial Intelligence in education comes with potential consequences for students, including the loss of autonomy in decision making. Several factors contribute to this shift, impacting various aspects of student educational experiences.

Artificial intelligence in education introducing the risk of perpetuating and

exacerbating systemic biases present in society - Several societal consequences arise from the potential introduction or reinforcement of systemic biases in AI-driven educational system.

The erosion of trust in educational institutions and technology, particularly due to implementation of artificial intelligence can have profound societal consequences. There are several factors that contribute to the erosion of trust, Bias and unfair treatment, Lack of transparency, ineffective communication, Privacy concerns, Ethical dilemmas, and Public Perception of technology role.

The lack of transparency and accountability in the development and implementation of AI tools poses significant challenges and has several

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• including limited accountability for developers and implementers

The need for transparency and accountability in Artificial Intelligence is crucial for ensuring ethical, fair, and responsible development and deployment of AI systems.

Here are the key reasons highlighting the importance of transparency and accountability in AI. Trust building, understanding decision making, identification and mitigation of bias, user employment, ethical considerations, legal and regulatory compliance and encouraging responsible innovation.

Legal framework and regulation play a crucial role in ~~the~~ governing the development and deployment of artificial intelligence technologies. Adapting existing law and orders ethical considerations

is essential for creating a comprehensive and responsible regulatory environment. Legal framework should address the potential biases and discriminatory outcomes associated with AI system - legal adaptation can address the potential unintended consequences of AI such as accident or unintended uses.

Public awareness and advocacy play vital role in shaping the ethical development, deployment and regulation of Artificial intelligence. Increasing awareness and fostering advocacy efforts can empower individuals to participate in discussion, demand transparency, and influence policies related to Artificial intelligence.

The unethical use of Artificial Intelligence in education poses significant risks and consequences that must be addressed to ensure a fair and equitable learning environment. As we reflect on the implications of such practices, several key conclusions emerge, need for ethical guideline, guardrails against bias, Transparency for trust, Privacy safeguard collaborative efforts and Ethics education for ~~the~~ education development. The collective commitment to responsible Artificial Intelligence Artificial Intelligence Practices will shape and education landscape that is fair, inclusive and conducive to the holistic development of student.