

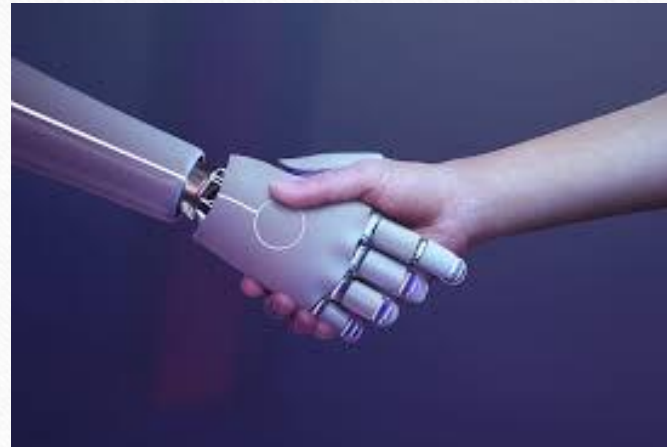
Ethical principles in the use of AI

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- **How do we use AI responsibly and consciously in learning?**
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This question is of increasing importance in our education system, where technology and human values meet.



Why is the ethical use of AI in learning important?

- The rapid development of AI requires responsible application
- As technology advances, ethical dilemmas become more pressing:
 - how do we protect student data,
 - avoid algorithmic bias and
 - ensure transparency in AI-based education systems?

Why is the ethical use of AI in learning important?

- Inappropriate use of AI can lead to serious harm:
 - reduced student motivation,
 - unequal educational opportunities
 - and the inhibition of the development of critical thinking.

Therefore, a conscious, ethical approach is essential.

Human and machine collaboration

- AI does not replace human teaching, but complements it.
- The most effective learning environments are created when technology and human wisdom work together harmoniously.

Transparency

- Students and educators have the right to know how AI systems work, what data they use, and how they make their decisions.
- Instead of "black box" algorithms, we need systems that are understandable and explainable.

Data protection

- The protection of students' personal data is a fundamental right.
- This includes anonymization, the principle of minimal data collection, and ensuring that students (or their parents) have control over their own data.

Impartiality

- AI systems should be designed and tested in a way that does not reinforce social biases.
- This can be achieved through continuous monitoring and calibration, involving development teams from diverse backgrounds.

Responsibility

- While AI can support decision-making, the ultimate responsibility must always remain in human hands.
- Educators and professionals must be able to override AI suggestions when necessary.

Objectivity

- AI systems are only as objective as the data they use and their developers.
- That's why diversity and continuous monitoring are key.

Human supervision

- Never let AI take complete control.
- Educators must be able to review, interpret, and override AI suggestions if necessary.

The future of AI in education

- Generative AI opens up new dimensions in education. It can generate unique learning materials, tasks and explanations for each student, taking into account their individual learning style, pace and interests.
 - Adaptive content generation in real time
 - Interactive simulations and virtual environments
 - Multilingual and multimodal learning experiences

Supporting motivation and creativity

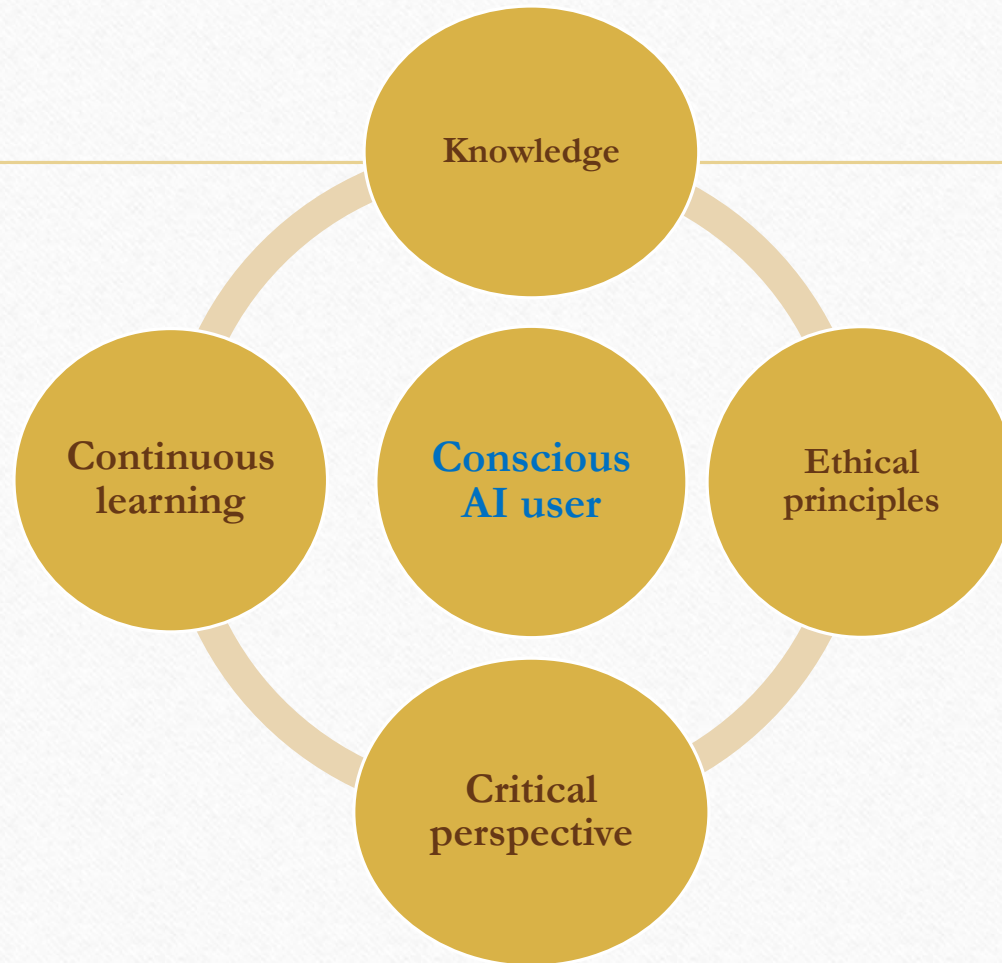
- The role of AI is not just to convey information, but to inspire and motivate learners.
- Through gamified elements, personalized challenges, and creative projects, AI can help make learning an experiential experience.

Responsible use of AI for the next generation

- Today's students will be the ones who will shape the role of artificial intelligence in society as adults.
- Therefore, it is especially important to teach them ethical thinking and the conscious use of technology now.



How can we become conscious AI users?



Thank you for your attention.
