

AI and Data in Education: An Ethical Reflection

The seminar is open to **bachelor students across all computer science programs** as well as master students in the educational sciences.

We critically reflect on perspectives and challenges of AI-based systems in education by evaluating case studies and existing technologies. We focus particularly on related ethical considerations and relevant legal frameworks. Thereby, the goal of the seminar is to equip future education professionals as well as system designers with the skills and mindset to engage in an informed and reflective use of AI in education.

To enable participants to critically reflect on opportunities and challenges of existing AI-based and data-driven educational technologies, the seminar will cover the following parts:

- **Introduction:** What is AI? What data do we generate in education? What could be problematic here?
- **Use cases:** What technologies do we apply already? What critical questions arise?
- **Ethics:** What ethical frameworks do we have? How can we critically reflect on arising issues?
- **Governance:** What governance frameworks should we know about?
- **Competences:** What competences do we need as educators / system designers to handle arising challenges?
- **Poster presentation:** Introduction of interdisciplinary team work, reflecting on selected use cases and individual learning gains

Grading: The grade achieved in the seminar results from 1) active participation and contribution to seminar work and discussions and 2) poster presentation conducted in interdisciplinary teams.

Prerequisites: The course will be conducted in English. Consequently, participants should be able to express themselves in English. Therefore, an adequate level of English skills (i.e., at least B2) is required.

Contact:

Prof. Dr. Maria Wirzberger (maria.wirzberger@iris.uni-stuttgart.de)