

Empowering STE*M teachers with AI: a hands-on AI experience for STE*M teacher support

In this engaging and interactive workshop, we'll delve into the exciting world of artificial intelligence (AI) and explore how it can enhance STE*M¹. Our focus will be on practical applications that empower teachers to create dynamic learning environments.

Workshop outline and objectives:

The workshop is aimed to let STE*M teachers gain confidence in bringing AI to the classroom, discover practical applications for AI in education and foster collaboration and idea-sharing among educators.

The workshop is structured according to the following outline:

- 1) Introduction to AI Basics to demystify selected AI concepts and terminology and understand how AI algorithms work with an example from one of our STEM-projects.
- 2) Hands-On with Teachable Machine to learn how to create custom AI models without coding.
- 3) Discuss scenarios where AI can support teachers to enhance teaching and learning, by
 - i) Evaluating collaboration quality among students.
 - ii) Identifying classroom management issues (e.g., inattentive students).
 - iii) Leveraging co-teaching opportunities.
- 4) Prototyping an AI System to collaboratively design a prototype AI system tailored for STE*M teachers
- 5) Brainstorm creative ways to integrate AI into lesson plans.

Join us for an inspiring workshop that bridges the gap between AI theory and classroom practice. Let's empower STE*M teachers to embrace AI as a valuable ally in their teaching journey!

PS: bring your laptop and smartphone!

¹ While STEM, in educational confines, stands for Science, Technology, Engineering, STE*M adds a layer to the already interdisciplinary intentions. In that sense the provisional asterisks aims to include external disciplines and knowledge fields to further enhance the STEM project.