



## Learn & Improve Professional Skills Session 4

AI Committee

**Sunday, October 5, 16:45 – 18:15**

### Session Title

**AI for Young Developers in NM**

### Chairpersons

**Lena Kaiser** (Munich, Germany)

**Thomas Lund Andersen** (Copenhagen, Denmark)

### Programme

16:45 – 17:05 **David Kersting** (Essen, Germany): Data preparation for AI

17:05 – 17:25 **Cláudia Constantino** (Lisbon, Portugal): Basics of coding for AI

17:25 – 17:50 **Lara Cavinato** (Milan, Italy): Best practices for model development

17:50 – 18:15 **George Prenosil** (Bern, Switzerland): Large Language Models for coding and scientific writing

### Educational Objectives

1. Understand the process of AI development
2. Gain foundational knowledge in setting up an initial AI model
3. Explore the potential of Large Language Models (LLMs) to enhance and accelerate coding

### Summary

This Learn & Improve Professional Skills (LIPS) session provides a structured introduction to AI development, covering key aspects such as data preparation, coding basics, model development, and the role of Large Language Models (LLMs) in coding and scientific writing. Participants will gain a foundational understanding of AI workflows, from preparing datasets to implementing initial models. The course also highlights best practices for model development and explores how LLMs can accelerate coding and research documentation. With expert-led sessions, attendees will learn practical approaches to AI implementation, equipping them with the knowledge to build and optimize AI models effectively while leveraging cutting-edge AI-assisted tools.

### Key Words

AI; deep learning; machine learning; programming; large language model