



**S****M****A****R****T**

# SMART Akademie

## Machine Learning and AI: How machines understand and produce language

AI suffuses our everyday lives. We talk to our cellphone, and our cellphone talks back. It can answer our questions, predict our next words when texting, and translate into a multitude of languages. But how do these machines learn language? And are there ethical implications?

Computers cannot understand language as we humans do. And yet there are language models which can write texts for you, which can answer your questions, which can translate into other languages, and which can convert your voice into text. How do these models learn language?

This talk will focus on a sub-field of ML/AI: Natural Language Processing (NLP). It will give insight into how words are encoded so that they can be understood by a machine, and touch upon how language models work and how they are trained. Moreover, it will address the question of how much these state-of-the-art models are comparable to humans and pose the question of how ethical, or unethical, the use of such models is.

**Lena Bolliger, PhD Student at the Institute of Computational Linguistics at UZH.**

### For whom?

2nd and 3rd immersion classes, all the 4th classes, interested individuals.

### Organizer?

Kantonsschule Baden, Martin Moling

### When and where?

Friday, Dec. 2nd, 2022, 12:35-14.15, Aula

### Sign-up

Registration via email to [martin.moling@kanti-baden.ch](mailto:martin.moling@kanti-baden.ch) until Friday, November 25, 2022.

### Kontakt

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