

# Info on Generative AI Use

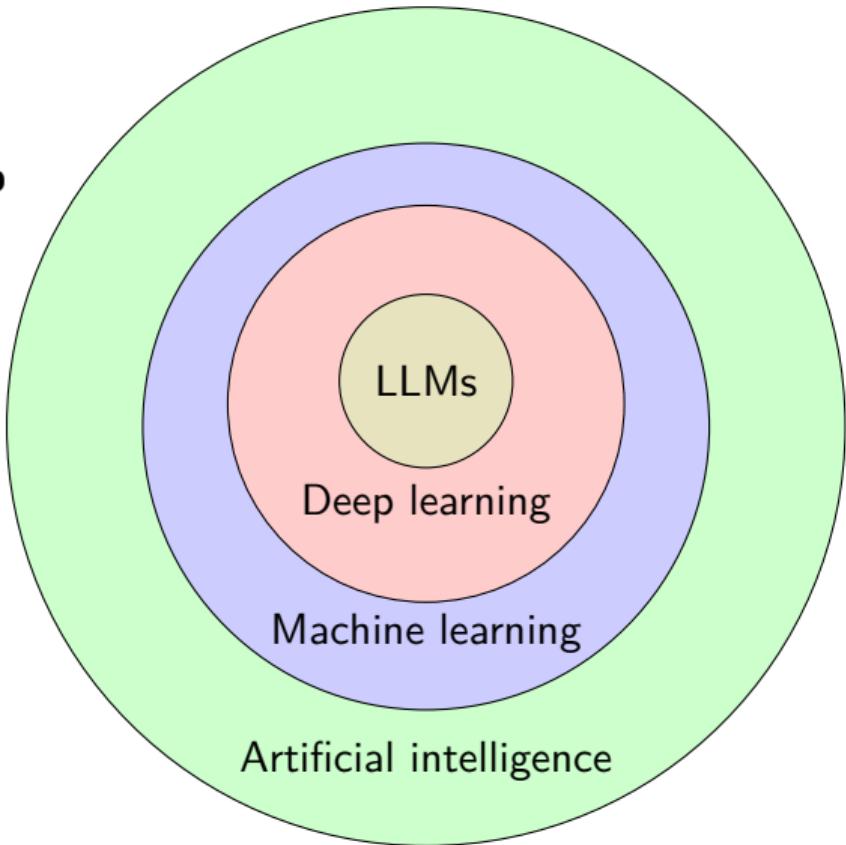
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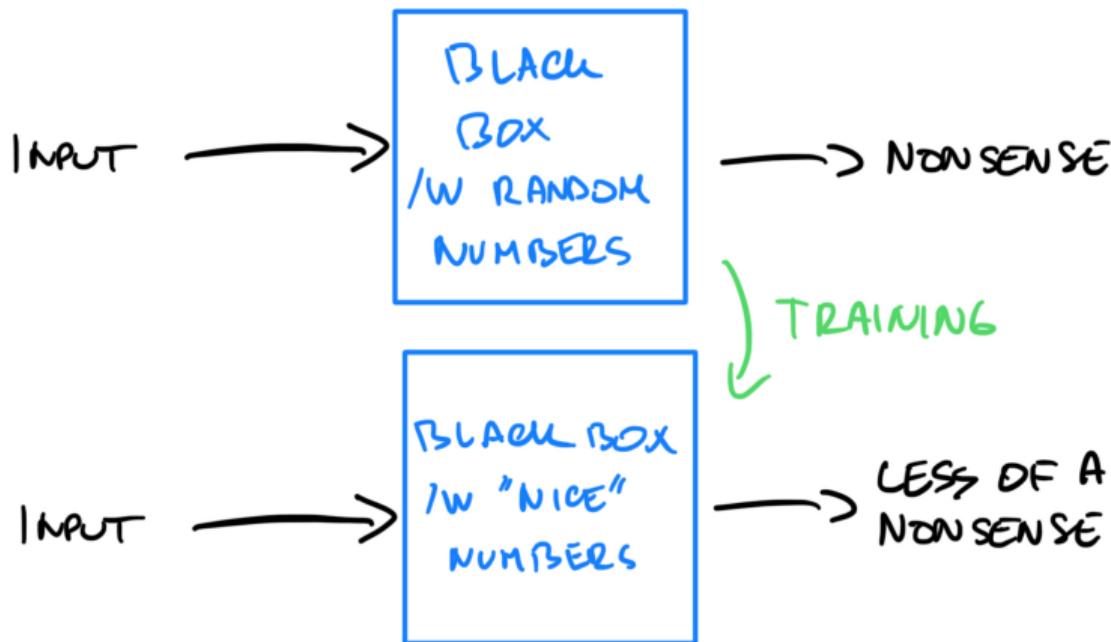
WS 2024/25  
Pre-course

**People 'not in the know' like to mix up  
and misuse:**

- ▶ Artificial Intelligence
  - ▶ Generative AI
- ▶ Deep learning
- ▶ Machine learning
- ▶ Large Language Models
- ▶ Neural Networks
- ▶ ...



# How can machines (and LLMs) learn?



# Large Language Models - ChatGPT, Gemini, Claude, Llama,...

Why are they models?

attempt to 'do language' like 'we would'

Why language specifically?

trained on natural language, good for tasks such as modelling, translation, summarisation, classification,...

What makes them large?

learned knowledge about language and the world from vast amounts of text

# Inherent limitations

## Bias

if its in the training data, it may appear in the output  
(toxic language, gender bias, race bias,...)

## Hallucinations

prone to make things up - text is coherent, but false

## Copyright/Privacy Issues

Where did its knowledge come from?

Where did my knowledge come from?

## Issues you might encounter

- ▶ Doesn't actually follow the instructions or makes its own instructions to follow
- ▶ Gives you absolute bullshit<sup>1</sup> at times
- ▶ You are not as sneaky as you think you are
- ▶ And of course, **if you outsource the learning process to someone/something else, you don't learn**

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<sup>1</sup>Hicks, M.T., Humphries, J. & Slater, J. Correction: ChatGPT is bullshit. Ethics Inf Technol 26, 46 (2024). <https://doi.org/10.1007/s10676-024-09785-3>

# Stance of the University

## The university strictly limits the usage of AI

As of the 31th January 2023, the University of Tübingen prohibits the usage of AI in any way, shape or form in a scientific background. Continuing the usage of any AI will lead to failing the class/module or being expelled from the university

In easier words: You cant use Chatgpt not for your assignments, papers, presentations and obviously not in exams. Youll get kicked out if you do that.

## Recommendations

The University is aware that Generative AI is a useful tool

[https://uni-tuebingen.de/en/research/support/  
good-scientific-practice/guidelines-on-generative-ai/#c2039244](https://uni-tuebingen.de/en/research/support/good-scientific-practice/guidelines-on-generative-ai/#c2039244)

## What is it good for (non-university usage)

- ▶ Plugins to learn languages
- ▶ Using Plug Ins
- ▶ Searching for specific products
- ▶ Help with installing things to your machine
- ▶ Movie recommendations
- ▶ Mundane tasks where you can verify the results

**Think critically, like a (computational) linguist**

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**Don't be reliant**

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**Use with care and consideration**

