

Practical Engineering with LLMs

GENERAL INTRODUCTION

- Getting to know each other
- What can you expect
- Organizational matters
- Course outline
- Requirements for credits
- Demos
- Breakout sessions
- Tasks for next session

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Getting to know each other!

Your course instructors



Getting to know each other!

Please introduce yourself!

- What's your name?
- Where are you located, studying, working?
- What is something you love to do?
- What kind of LLM-projects might interest you?

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What you can expect...

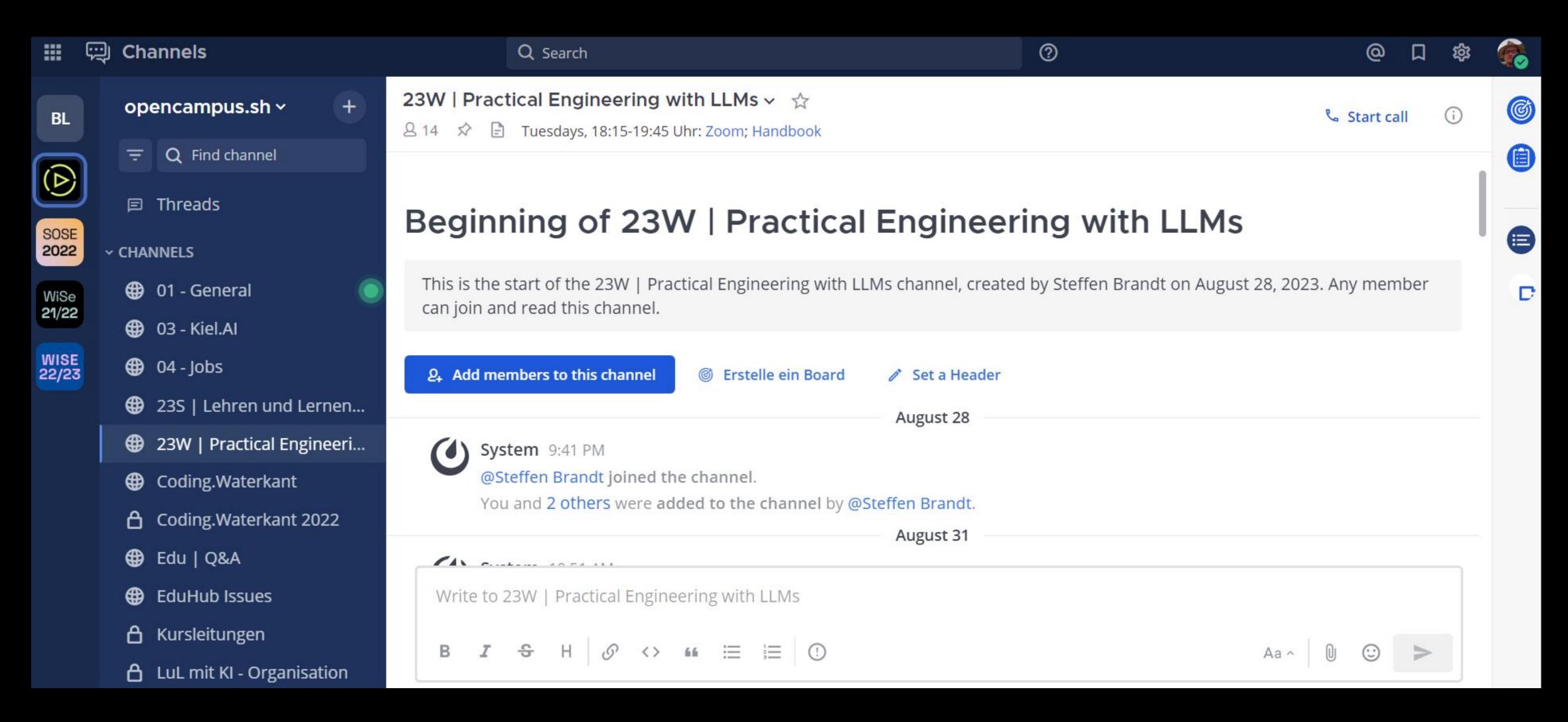
- OpenCampus courses are a collaborative learning experience.
- We will provide you with helpful online courses and additional material.
- We will challenge you with tasks and guide you in learning.
- You have an active role as a learner and project leader.
- You will work on your own project together with other participants.

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ORGANIZATIONAL MATTERS - Mattermost

- Complete your profile in the Mattermost chat with your full name and a photo.
- Please write us if you won't continue the course!

ORGANIZATIONAL MATTERS - Mattermost



ORGANIZATIONAL MATTERS - Attendance

In Presence:

- Scan the QR-Code if you participate in presence

Online:

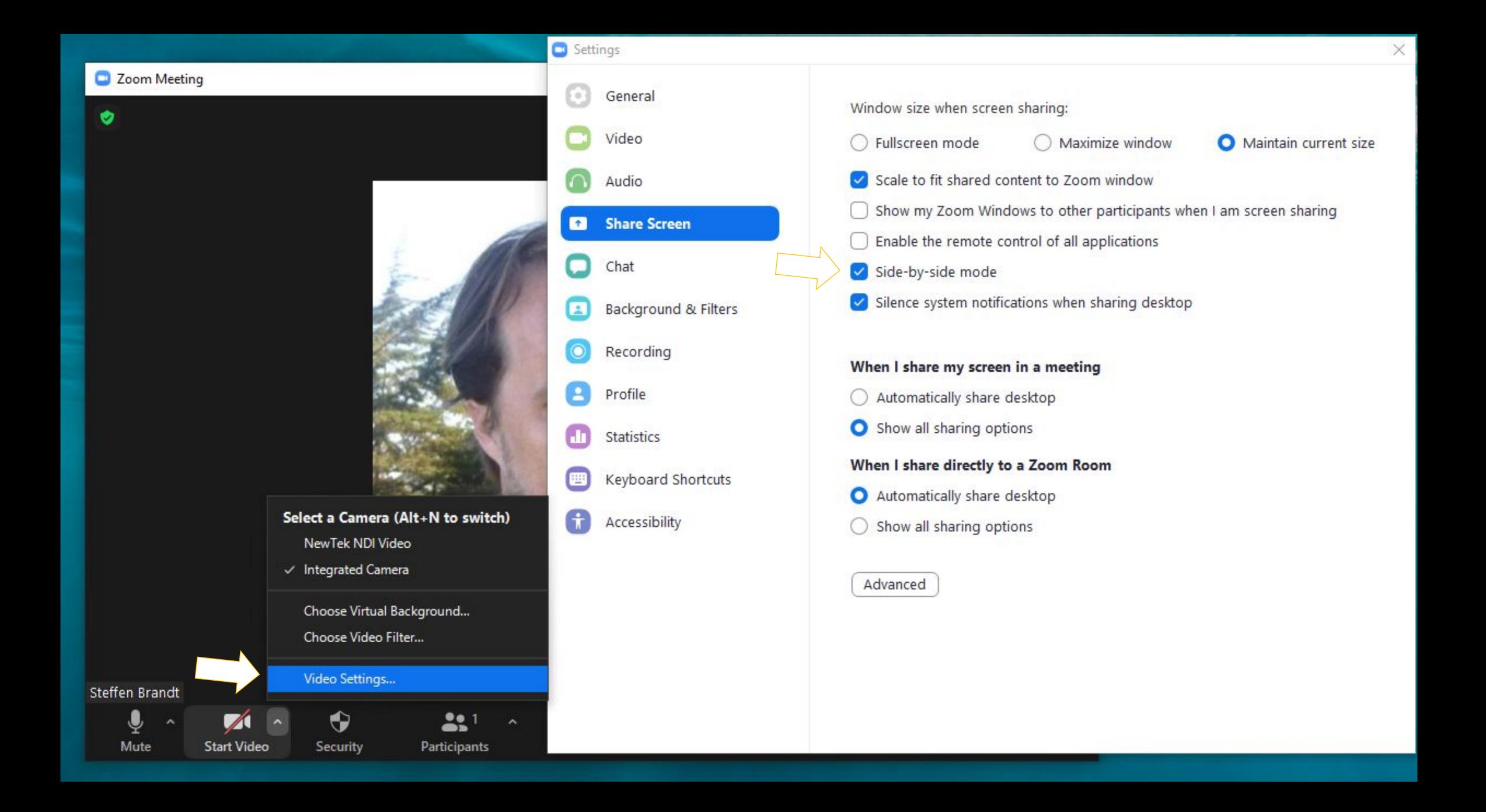
- Use your full names in the zoom meetings!
- Only counts as attended with camera on.

ORGANIZATIONAL MATTERS - ZOOM

- Try the different viewing modes:
 - Gallery View/ Active Speaker
 - Split Screen/ Full Screen Mode

Maybe watch this video to get an idea:

https://www.youtube.com/watch?v=v3IPAbpVjd4



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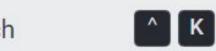
24.10.2023 18:15 - 20:00	General Introduction Zoom + Starterkitchen, Kuhnkestr. 6, Kiel			
07.11.2023 18:15 - 20:00	Prompt Engineering Zoom + Starterkitchen, Kuhnkestr. 6, Kiel			
14.11.2023 18:15 - 20:00	Introduction to LangChain Zoom + Starterkitchen, Kuhnkestr. 6, Kiel			
21.11.2023 18:15 - 20:00	Introduction to Retrieval Augmented Generation Zoom + Starterkitchen, Kuhnkestr. 6, Kiel			
28.11.2023 18:15 - 20:00	Advanced Retrieval Augmented Generation Zoom + Starterkitchen, Kuhnkestr. 6, Kiel			
05.12.2023 18:15 - 20:00	Building User Interfaces with Gradio Zoom + Starterkitchen, Kuhnkestr. 6, Kiel			
12.12.2023 18:15 - 20:00	Evaluation of LLM outputs and structured output Zoom + Starterkitchen, Kuhnkestr. 6, Kiel			
19.12.2023 18:15 - 20:00	Open-Source Large Language Models Zoom + Starterkitchen, Kuhnkestr. 6, Kiel			
16.01.2024 18:15 - 20:00	Project Presentations Zoom + Starterkitchen, Kuhnkestr. 6, Kiel			

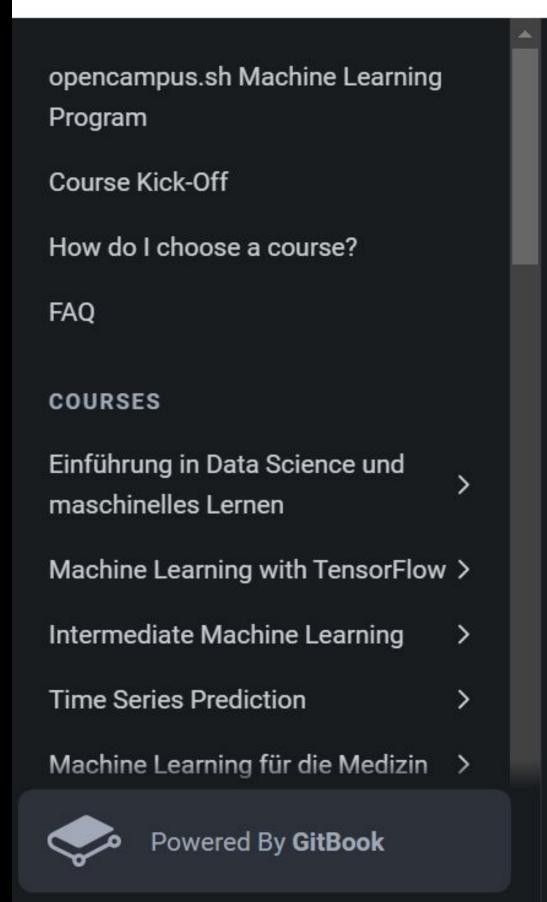
COURSE OUTLINE- Handbook



EDU-Platform

Q Search





Practical Engineering with LLMs

Here are the articles in this section:

Week 1- General Introduction

Week 2 - Prompt Engineering

Week 3 - Introduction to LangChain

Week 4 - Introduction to Retrieval Augmented...

Week 5 - Advanced Retrieval Augmented Gen...

Week 6 - Building User Interfaces with Gradio

Week 7 - Evaluation of LLM outputs and struc...

Week 8 - Open-Source LLMs

Week 9 - Project Presentations

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REQUIREMENTS - Overview

Requirements to get course credits and a certificate ...

- Attendance
- Active participation in the sessions
- Presenting homework / exercises
- Coding a project with your group

REQUIREMENTS - Attendance

You can miss at most 2 sessions

 Participation is only counted if you have scanned the QR code in presence or use your full name and have your camera turned on in Zoom

REQUIREMENTS - Exercises

- The course handbook encompasses homework (exercises)
- Each week two to four of you will present the exercises given in the course handbook (quick and dirty)

Each of you presents at least once

EXERCISES: WHO WILL PRESENT NEXT WEEK?

REQUIREMENTS - Projects

We will form project groups in session 2 or 3

 Therefore you should bring some potential project ideas to the next session

We will also bring some possible project ideas to the next session

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Demos - Showcasing projects

Demos - Some LLM providers

Provider	Models	Context window	Free tier	Playground available
	gpt-3.5-turbo gpt-3.5-turbo-16k gpt-4 gpt-4-32k	4,097 Tokens 16,385 Tokens 8,192 Tokens 32,768 Tokens	5\$ for the first three months	yes (OpenAl Playground)
Anthropic	Claude Instant Claude 2	100,000 Tokens 100,000 Tokens		no
Cohere	Generate Chat	2,048 Tokens ?	Free tier with rate limit via Trial API key	yes (Cohere Playground)
Google	PaLM 2	8,000 Tokens		no
MosaicML	LLaMa-2-70B-Chat MPT	4,096 Tokens		no
Aleph Alpha	Luminous	?		yes (Aleph Alpha Playground)
and many more				

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FIRST BREAKOUT

- 15-20 Minutes
 - Introduce yourself briefly to the others!
 - What good or bad experiences do you have with ChatGPT?
 - Have you already experimented / worked with other LLMs?
 - As a group, generate 3 ideas which apps you could build with LLMs!

- Present your ideas afterwards to the plenum!

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TASKS UNTIL NEXT WEEK

 Watch the provided videos, work through the course "ChatGPT Prompt Engineering for Developers and read the provided texts (-> Course Handbook)

- Complete tasks 1-4
 - Who presents task 1 and 2?
 - Who presents task 4?

Bring questions!