

The SESS10N Prompt Engineering Workshop

A use-case based approach

16 October 2024, Stuttgart

What We'll Cover

- Introduction
- Workshop Overview
- The OpenAl Playground
- Use-case Based Learning
- Key Take-aways





Who Am I

- Neil Sinclair, Senior Data Scientist, Berlin
- Deloitte strategy consultant turned data scientist
- Projects: retail, insurance, numerous GenAl projects and Data Product Factory







Overview of the Workshop

My Assumptions About You

- A big part of your role is making decisions
- You want something that can help you make better decisions quicker
- You want to reduce tasks that take up a lot of time and have little value so you can focus where you make the biggest impact

Our Approach

- We will focus on use-cases to help you be more efficient
- We will learn techniques only as they support the use-cases
- This is a hands-on session: most of the time you'll be working
- There will be small prizes

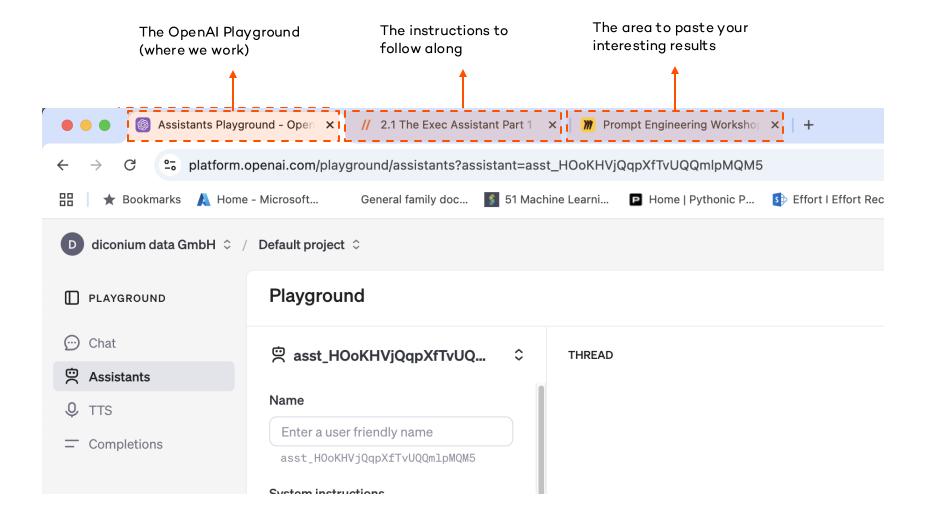






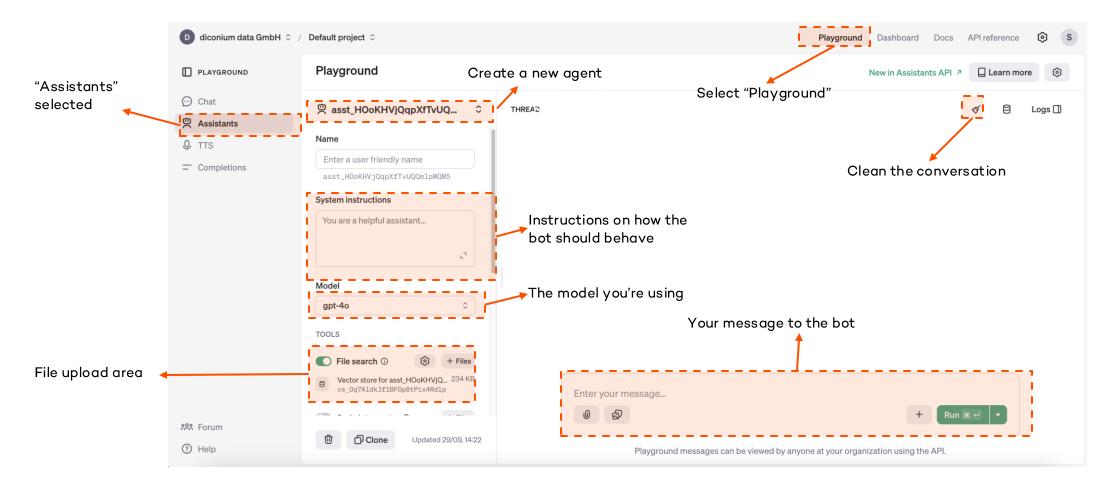


Overview of the Browser





The OpenAl Playground





The Expert

Adding an expert to your team

Starting with the Basics: The Expert

– Let's get started!

 Go to your browser and click on the second tab – all of the templates you need for us to get started are there



- The system message defines the character of the bot
- Add information about your company or department to get more custom results
- More detail is better
- The process is experimental create, test and iterate
- You can also put this "personality description" at the top of your user message





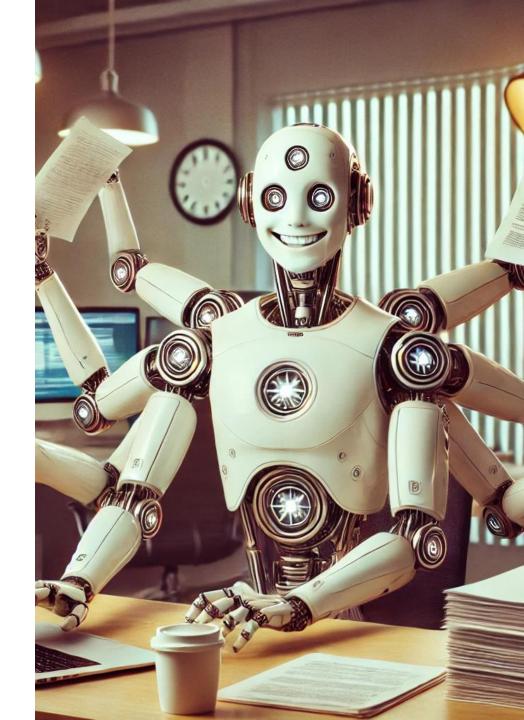
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The Executive Assistant

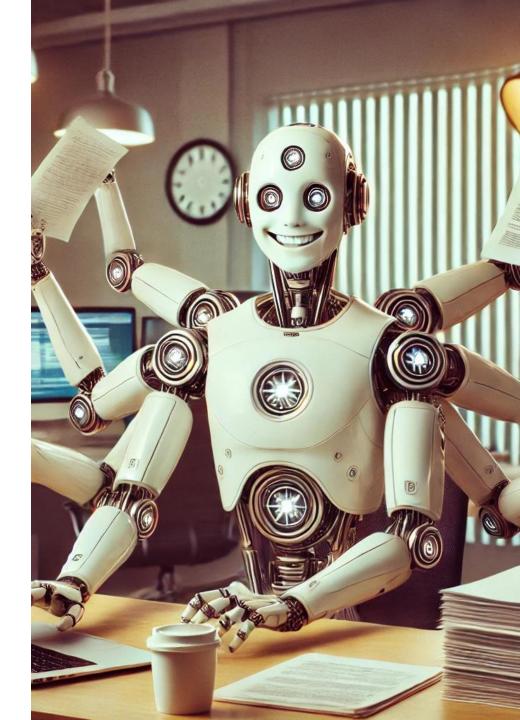
A personal executive assistant so you can focus on what matters

Automate the Boring Things: The Executive Assistant

- Like a great executive assistant, your personal bot can take over some of the boring work you need to do
- Need to translate something quickly, no problem
- Need someone to check your work for mistakes, you can trust your assistant
- Need to draft the perfect email in seconds, let your assistant do that for you



- Your bot can speed up mundane tasks
- Adding information about your company will help the bot to include this info in your work
- Give your bot the key points and they can fill in the rest
- You can iterate on the work with the bot by asking it to change parts of its work
- You MUST check their work before you send it off





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The Research Assistant

Giving your bot documents so they can give you insights ASAP

Hallucinations and Reasoning

- Bots are very good at generating text which looks correct, but which has no basis in truth – this is called hallucinating
- One way to stop this is to give information to bot to answer questions from
- Like a good student with a good textbook in front of them, bots are (surprisingly) good at reasoning when the information they have is good
- When a bot generates a response using an external document,
 we call this Retrieval Augmented Generation RAG for short



- Providing your bot with information to answer a question vastly improves its accuracy
- You can take this to the next level by uploading whole documents
- You can tell your bot how you want it to answer/summarise information
- You can ask your bot for insights (i.e. not just a summary) on a document





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Workshop Takeaways

Three things to takeaway from today



 With clever, iterative design of the system prompt, GenAI assistants are an excellent tool for being more efficient and giving you more time to do the things where you add real value.

— In the same way you wouldn't send a working student's work to the board without checking it, always check your assistant's work before sharing it!

 GenAl assistants make excellent researchers and they can help you get to the core of something very quickly before you dive into the details yourself





Let's update your industry and build a more desirable future – **together.**