

20/05/25

AI-supported tender analysis

Kai Donato, Hyand Solutions GmbH

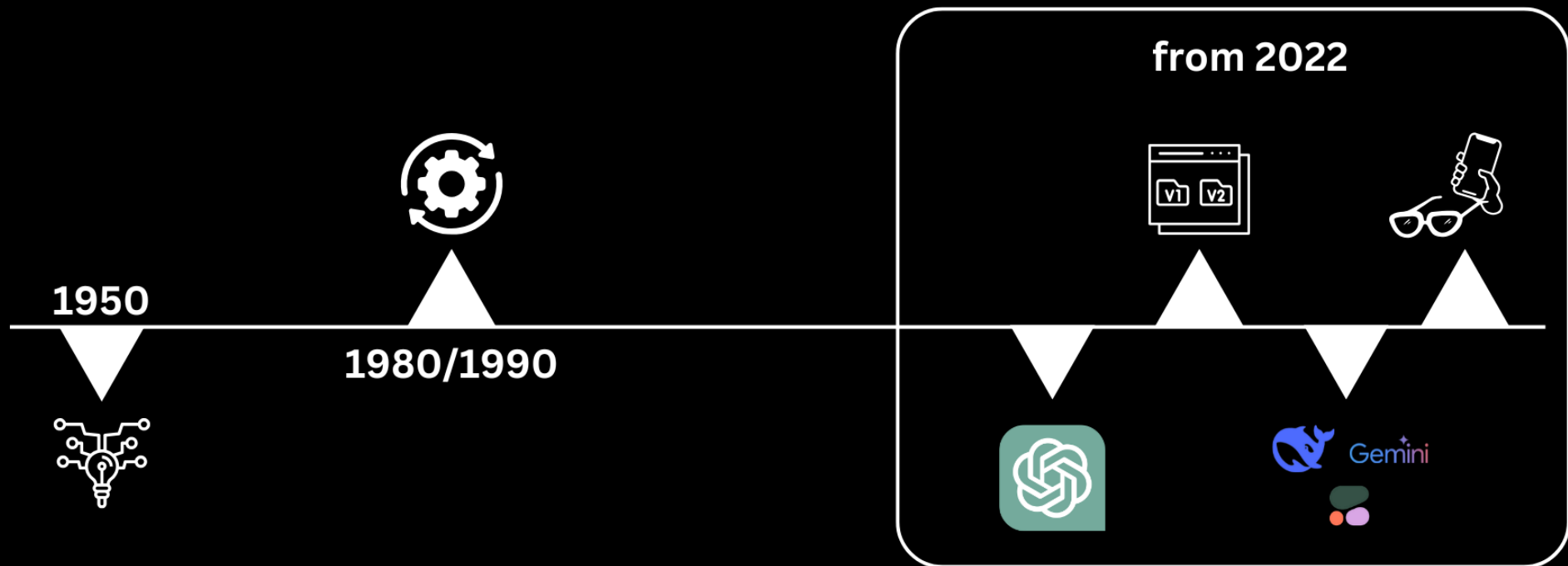
code of change



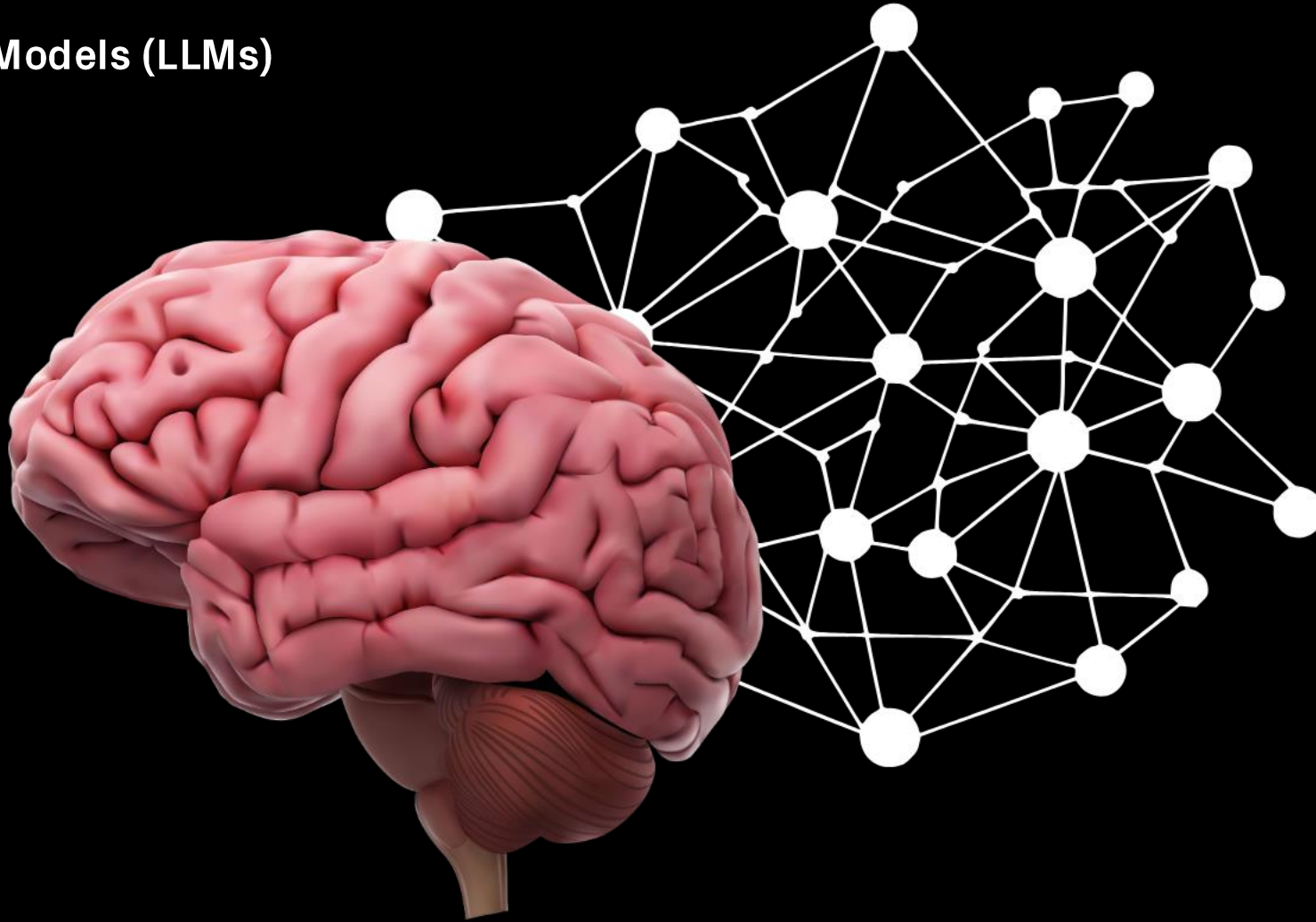
Topics & contents

1. Introduction to artificial intelligence
2. Areas in which AI is used
3. Use case: AI-supported tender analysis
4. AI-supported solution
5. Technical implementation and architecture
6. Retrieval-Augmented Generation (RAG)
6. Comparison of AI models
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8. Level system of the API
9. Open AI Team Edition
10. Outlook

Introduction to artificial intelligence



Large Language Models (LLMs)



Large Language Models (LLMs)



ChatGPT



Google Gemini

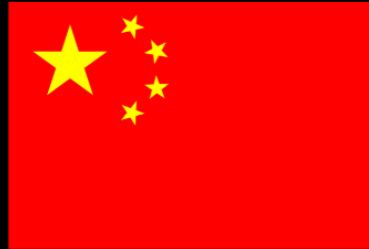


Cohere


















GitHub Copilot

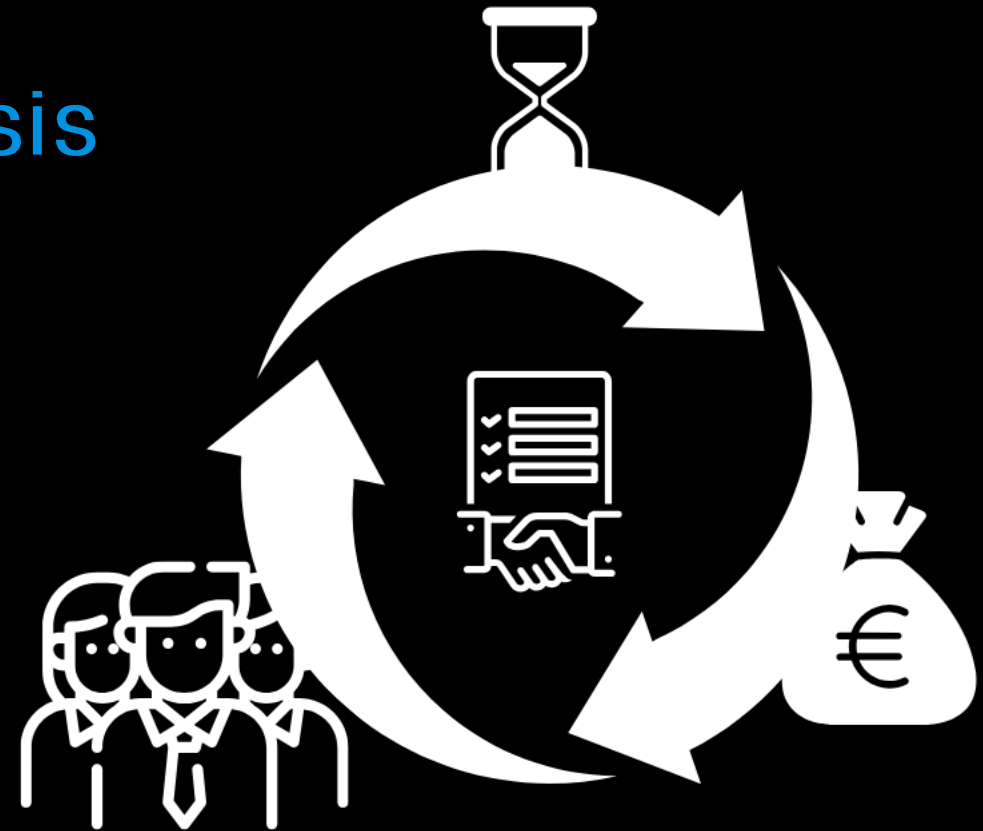
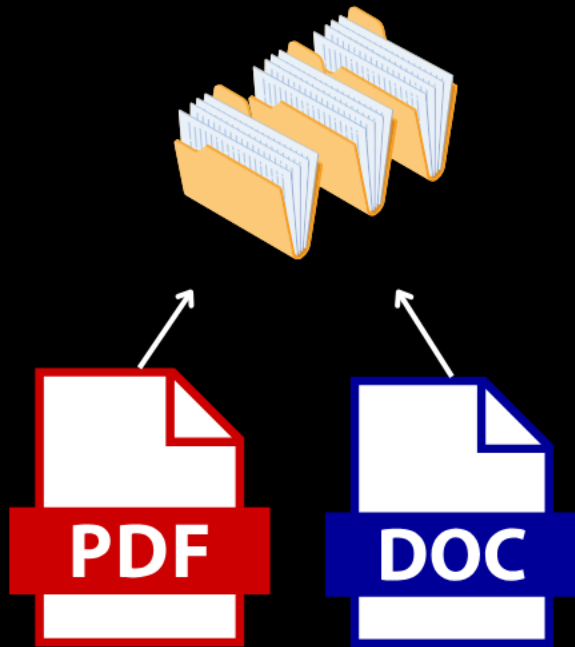
Market development



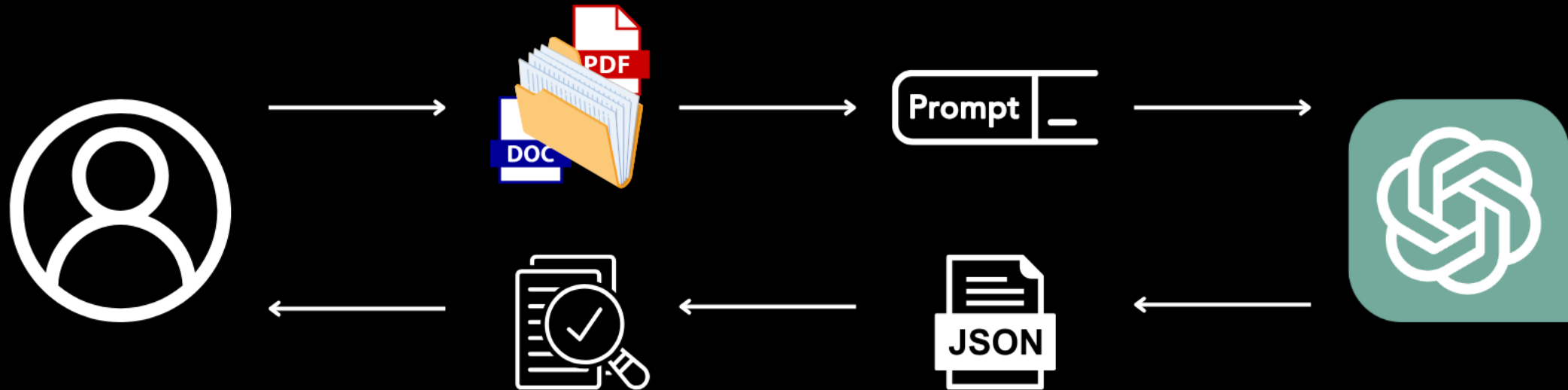
Areas in which AI is used

AI area	Examples
Text-based AI	     
Image-generating AI	  
Video-generating AI	  
Multimodal AI	  

Use case: AI-supported tender analysis

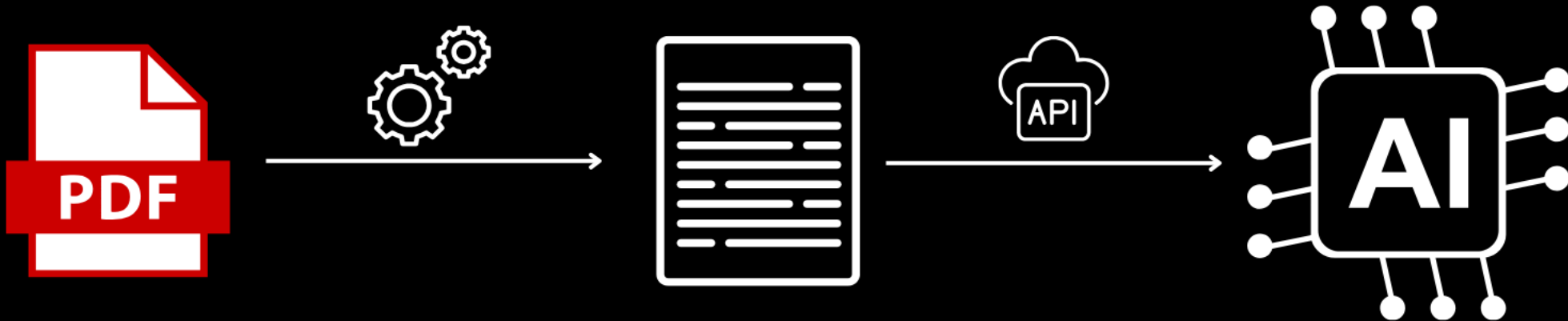


AI-supported solution



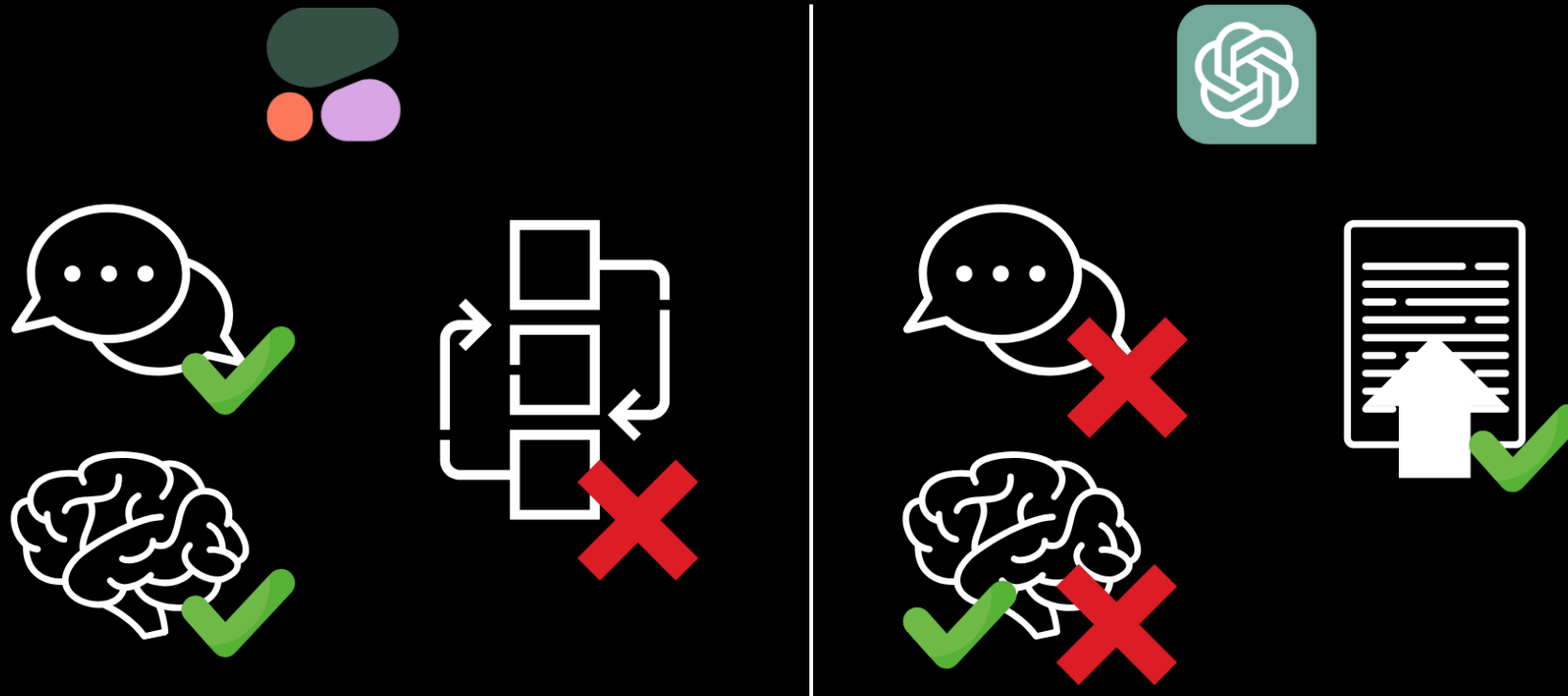
Technical implementation and architecture

problems when using ChatGPT and Cohere



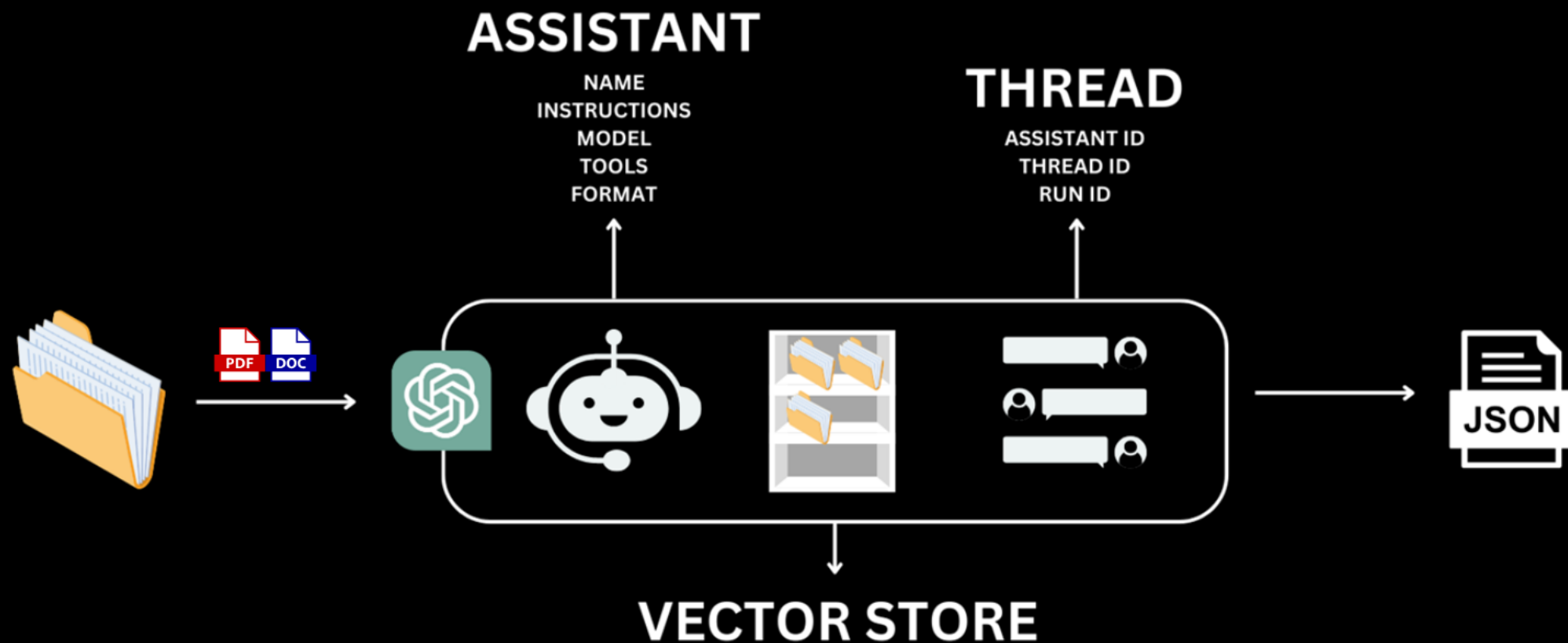
Technical implementation and architecture

problems when using ChatGPT and Cohere

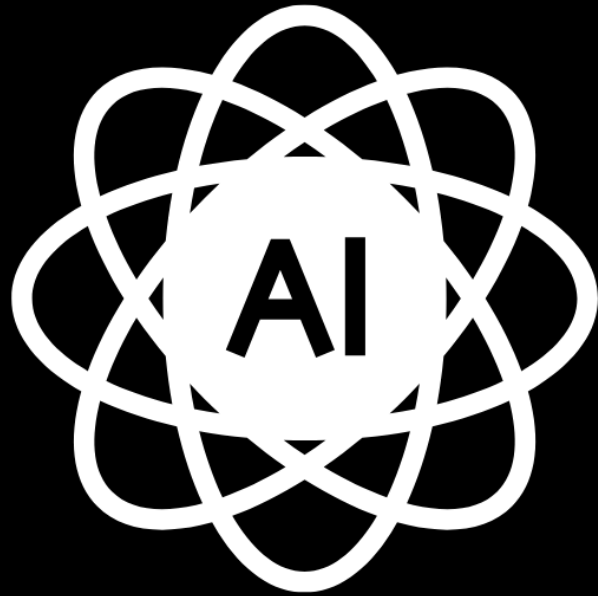


Technical implementation and architecture







Improved method by using the OpenAI Assistant (file search function)



Retrieval-Augmented Generation (RAG)



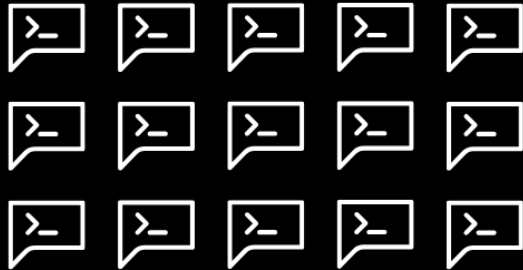
Comparison of AI models

	GPT-4o mini	GPT-4.5	GPT-4.1
			
			
CONTEXT	128.000	128.000	1.047.576
PER 1 M TOKENS (INPUT/OUTPUT)	0.15\$ / 0.60\$	75\$ / 150\$	2\$ / 8\$

Example: Costs of a tender analysis



17 pages



30 prompts

1.211.377 tokens

1.187.401 Input
23976 Output



GPT-4o mini

0,19\$

0,18\$
0,014\$

GPT-4.1

2,56\$

2,37\$
0,19\$

GPT-4.5

92,7\$

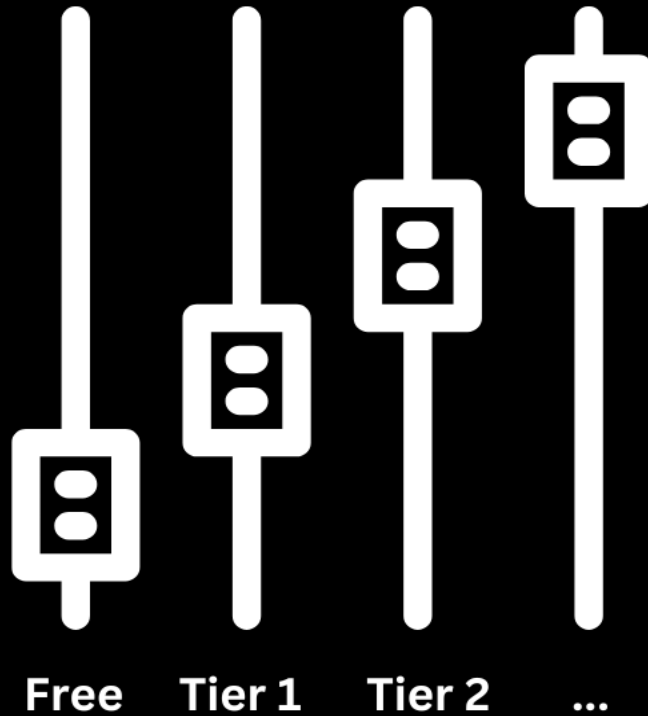
89\$
3,6\$

***GPT-4.5 dient als Referenzmodel mit extrem hohen Kosten.
Dieses Model (API) wird in Zukunft nicht mehr nutzbar sein.**

Level system of the API

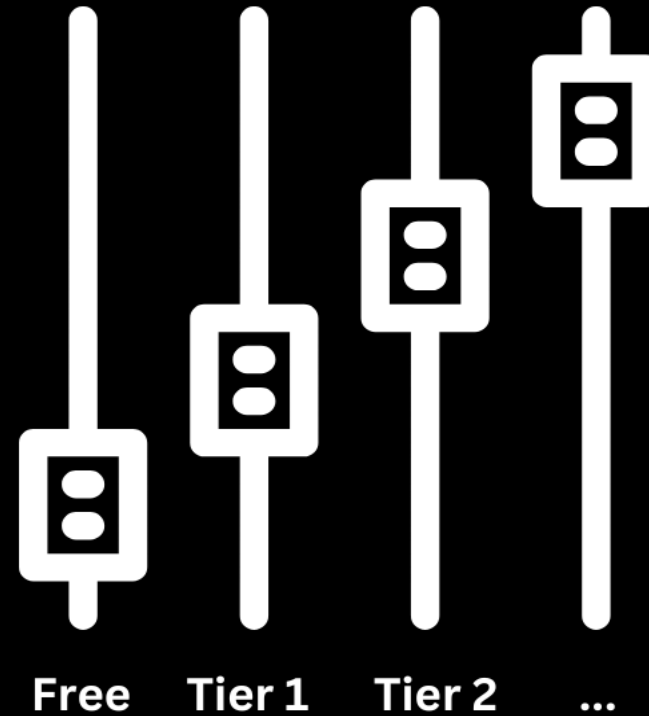
GPT-4o mini

150.000.000 TPM



GPT-4.5

2.000.000 TPM



Open AI Team Edition

Ownership

- ✓ You own and control your data
- ✓ We do not train our models on your business data by default
- ✓ You own your inputs and outputs

Control

- ✓ A dedicated workspace with an admin console and bulk member management
- ✓ You control who has access with user roles

Security

- ✓ Multi-factor authentication
- ✓ SOC 2 Type 2 compliance
- ✓ Data is encrypted at rest (AES-256) and in transit (TLS 1.2+)

Open AI Team Edition (Business terms)

- „3.1 *Customer Content*. You and End Users may provide input to the Services (“Input”), and receive output from the Services based on the Input (“Output”). We call Input and Output together “Customer Content.” As between you and OpenAI, and to the extent permitted by applicable law, you (a) retain all ownership rights in Input and (b) own all Output. We hereby assign to you all our right, title, and interest, if any, in and to Output. “ – Open AI
- “3.2 [...] We will process and store Customer Content in accordance with our Enterprise privacy commitments. We will only use Customer Content as necessary to provide you with the Services, comply with applicable law, and enforce OpenAI Policies. We will not use Customer Content to develop or improve the Services.” – Open AI
- OpenAI plans to release open-weight language model in coming months.

Enable sharing of model feedback from the Platform

Enable all members of your organization to share feedback and chats with OpenAI to help improve and train our models. If enabled, users can click the "thumbs down" button on model responses in the Playground and choose to share their feedback and content from the current chat. [Learn more.](#)

- ☒ Disabled
- ☐ Enabled for all projects
- ☐ Enabled for selected projects

Share evaluation and fine-tuning data with OpenAI

Turn on sharing with OpenAI for all evaluation and fine-tuning data from your organization, including evaluation and fine tuning prompts, completions, grading logic, and results, to improve and train our models. Only evaluation and fine-tuning data created after turning this setting on will be shared. You can change your settings at any time to disable sharing evaluation and fine-tuning data. [Learn more.](#)

✦ You're eligible for up to 7 free weekly evals.

Usage beyond these limits, as well as usage for other models, will be billed at standard rates. Some limitations apply. [Learn more.](#)

- ☒ Disabled
- ☐ Enabled for all projects
- ☐ Enabled for selected projects

Share inputs and outputs with OpenAI

Turn on sharing with OpenAI for inputs and outputs from your organization to help us develop and improve our services, including for improving and training our models. Only traffic sent after turning this setting on will be shared. You can change your settings at any time to disable sharing inputs and outputs.

✦ You're eligible for free daily usage on traffic shared with OpenAI.

- Up to 250 thousand tokens per day across gpt-4.5-preview, gpt-4.1, gpt-4o, o1 and o3
- Up to 2.5 million tokens per day across gpt-4.1-mini, gpt-4.1-nano, gpt-4o-mini, o1-mini, o3-mini and o4-mini

Usage beyond these limits, as well as usage for other models, will be billed at standard rates. Some limitations apply. [Learn more.](#)

- ☒ Disabled
- ☐ Enabled for all projects
- ☐ Enabled for selected projects

Save

Threads

Threads page shows messages created with the Assistants API and Playground.

- ☒ Hidden
- ☐ Visible to organization owners
- ☐ Visible to everyone

Usage dashboard

Usage dashboard shows activity and costs for your organization.

- ☐ Visible to organization owners
- ☒ Visible to everyone

Logs

Logs include Responses, stored Chat Completions, and Traces.

- ☐ Hidden
- ☒ Visible to organization owners
- ☐ Visible to everyone
- ☐ Visible for selected projects

Save

Outlook



Kai Donato

Project Manager
„HyTender“



Artur Seibel

Lead Developer



Fynn Luca Waller

Developer/Tester

Tender

Title

Beispiel Ausschreibung

Description

Beispiel Beschreibung

Cancel

Next >

Documents

✓

●

●

Tender


Documents

Prompts

Supported File Types

Currently, files of type PDF, DOC, DOCX, and ZIP are supported.
In the case of a ZIP file, only these file types are supported as well. All other files will be skipped.

Document Upload



Drag and Drop Files

Select or drop files here.

Choose Files

< Cancel

↑ Next >

Prompts



Tender



Documents



Prompts

+ New Prompt

Title ↑	Description	Edit	<input type="checkbox"/>
1. Generelle Informationen	Es werden generelle Informationen zur gesamten Ausschreibung abgefragt.		<input checked="" type="checkbox"/>
2. Technologien	Es werden die Technologien abgefragt, die in der Ausschreibung genannt werden.		<input checked="" type="checkbox"/>
3. Kosten	Die Kosten, die sich aus der Ausschreibung ergeben, werden abgefragt.		<input checked="" type="checkbox"/>
Auf welche Dateien hast du Zugriff?			<input type="checkbox"/>
Finanzierungsmodelle oder -optionen			<input type="checkbox"/>
Garantieleistungen			<input type="checkbox"/>
Gewichtung der Bewertungskriterien			<input type="checkbox"/>
1 rows selected		Total 48	

Antworte mir auf
Deutsch

Start



Cancel

Edit Custom Prompts



Title

Prompt

Description



Create

Overview

My Tender

Q

Search: All Text Columns

Go

Actions

+ New Tender

Details	Creation Date ↓	Name	Status	System	New Analysis	Delete	Create By
Q	5/7/2025	Tender Example B	6/6	Chatgpt-4o Mini	✎	🗑	ARTUR.SEIBEL@HYAND.COM
Q	5/7/2025	Tender	4/4	Chatgpt-4o Mini	✎	🗑	ARTUR.SEIBEL@HYAND.COM
Q	5/6/2025	Tender Example A	30/30	Chatgpt-4o Mini	✎	🗑	ARTUR.SEIBEL@HYAND.COM
							Total 3



Title

Tender Example A

Creation Date

5/6/2025

AI System

Chatgpt-4o Mini



Documents

[Generelle Informationen](#)

[Technologien](#)

[Kosten](#)

[Custom Prompts](#)

[Chat](#)

1. Generelle Informationen

Zusammenfassung der Ausschreibung

Titel

Fragestellung zur Anfrageunterlage APEX Applikationsbetrieb 2025

[QUELLE: AMS - Anfrageunterlage 2025-2027 (3).pdf - Abschnitt 1. Einleitung - Seite 4]

Frist

Beginn: 01.01.2025

Ende: 31.12.2027

[QUELLE: AMS - Anfrageunterlage 2025-2027 (3).pdf - Abschnitt 3.2. Vertragslaufzeit und Kündigung - Seite 6]

Anforderungen

- Erbringung von 3rd Level Remote-Support für neunzehn spezifische Applikationen.
- Bereitstellung von Mitarbeitern mit qualifizierten Kenntnissen in Oracle APEX und PL/SQL.
- Verantwortung des Auftragnehmers für die Wahrung von Datenschutz und IT-Sicherheitsstandards gemäß Volkswagen-Anforderungen.

[QUELLE: AMS - Anfrageunterlage 2025-2027 (3).pdf - Abschnitt 2 Zielsetzung und Abschnitt 5 Qualifikation des Auftragnehmers - Seiten 5 und 13]

Kontaktinformationen

Volkswagen Osnabrück GmbH

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Title

Tender Example A

Creation Date

5/6/2025

AI System

Chatgpt-4o Mini

Documents

Generelle InformationenTechnologienKostenCustom PromptsChat

Ich möchte gerne deine Fragen zur Ausschreibung beantworten.

Chat