

AI bij de provincie Utrecht

Ervaring na 7 trainingen AI binnen provincie utrecht

Raoul Grouls, 15 Mei 2025



<https://bit.ly/650utrecht>

Hello world

Raoul Grouls

- Data alchemist, <https://the-pttrn.nl/>
- Onderzoek @ HAN, 'internal representations of the world in AI models'
- Trainingen @ HAN, HU, Strategisch Informatiemanagement, provincie utrecht
- AI Architect, Gorilla IT



Waar moet ik beginnen?

Oh, AI \neq chatGPT?

Wat kan ik met AI?

De overheid stimuleert AI, maar
er zijn zorgen over privacy

Overheidsbreed standpunt voor de inzet van generatieve AI

Rapport 30-01-2025

De overheid stimuleert (generatieve) AI, bij voorkeur open source, lokaal en Europees.

Wat is het standpunt?

Als overheid **stimuleren** wij innovatie ten behoeve van betere dienstverlening met behulp van generatieve AI. Daarnaast worden overheidsorganisaties **aangemoedigd** om deze technologie te betrekken in het zoeken naar oplossingen voor problemen.

- Bij voorkeur worden **open modellen** gebruikt en, waar mogelijk, **open source**(-applicaties), of wordt hiernaartoe gewerkt⁶.

AI Act

Artikel 2(12)

12. This Regulation does not apply to AI systems released under free and open-source licences, unless they are placed on the market or put into service as high-risk AI systems or as an AI system that falls under [Article 5](#) or [50](#).

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Prohibited AI practices

AI Act

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NEXT →

Prohibited AI practices

Transparency Obligations

Wat is AI?

functie: Parameters \otimes Input \rightarrow Output

Wat is AI?

$$f: P \otimes A \rightarrow B$$

Parameters

Open source

Hardware

Lokaal

Interface

Open source & lokaal

Legal

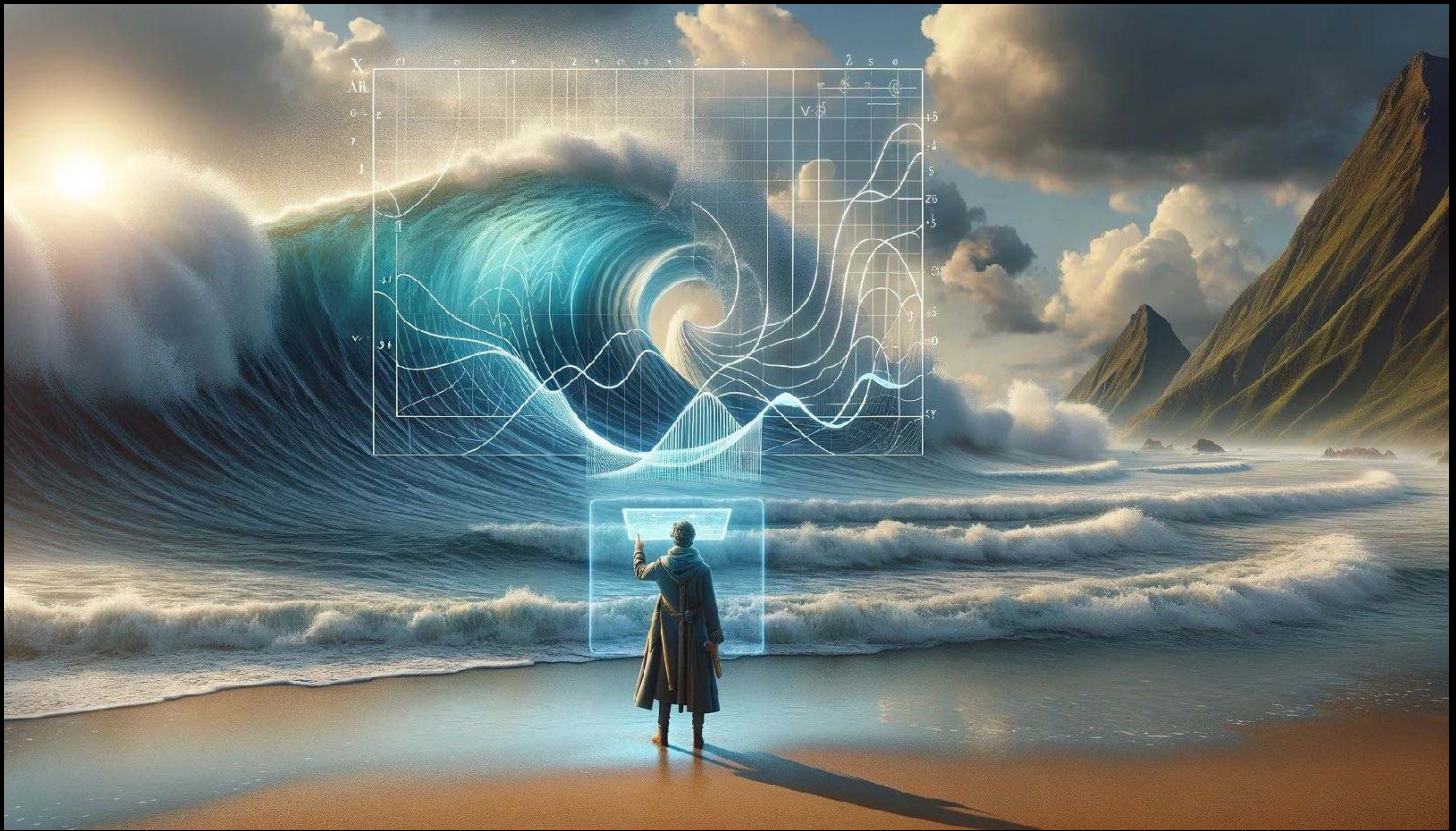
Europees

Parameters

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Parameters

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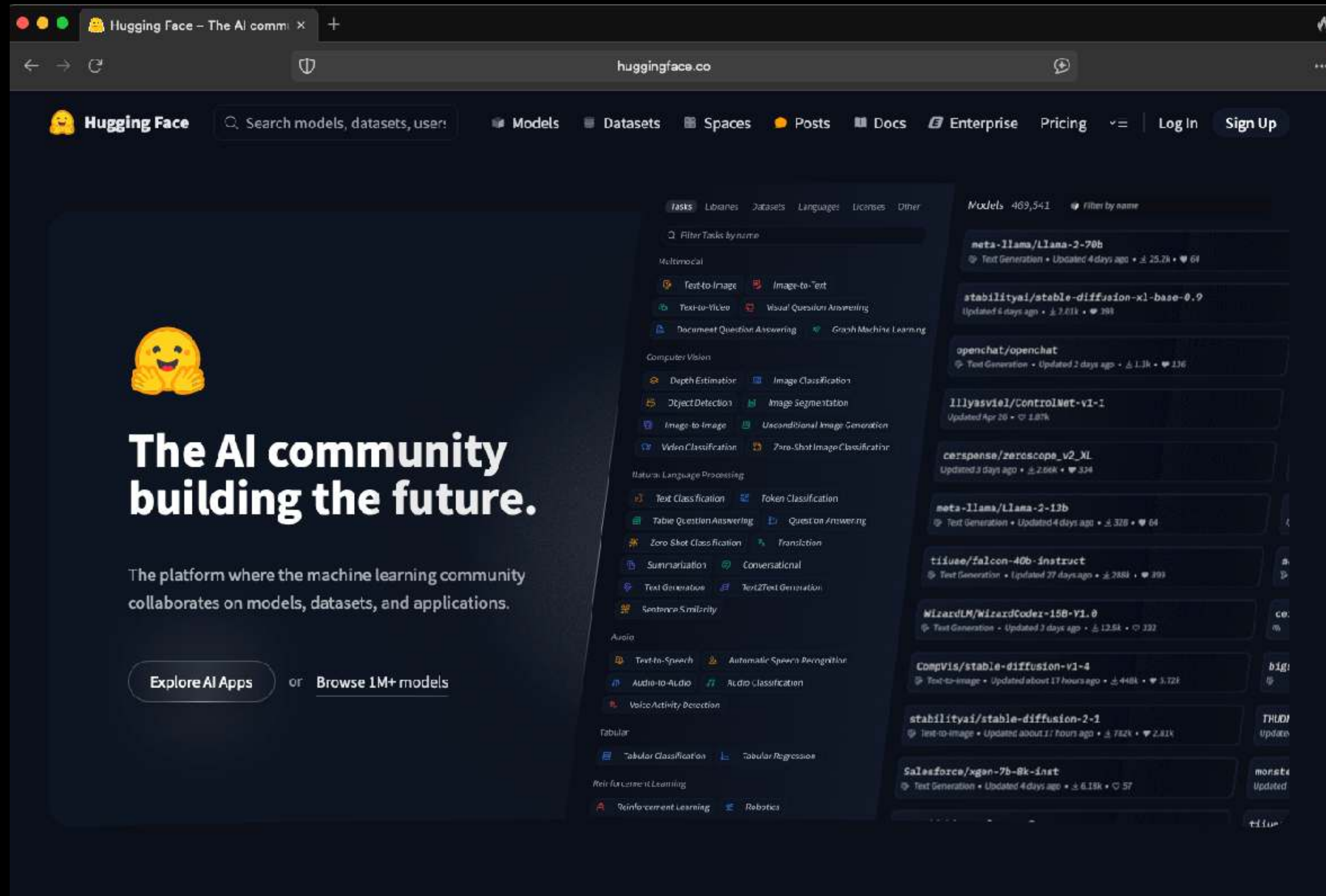
Er is een homomorfisme tussen de wetten van de natuurkunde en de realiteit

Parameters

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Open source of closed source ?

Parameters



huggingface.co

Parameters

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Hardware

Interface

Legal

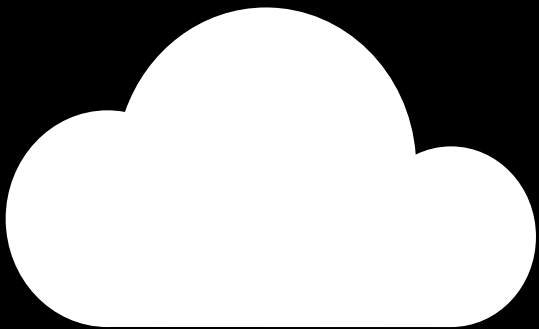
Hardware afwegingen

- Welke parameters wil ik gebruiken?
- Als de parameters open source zijn, wil ik ze dan lokaal gebruiken?
- Als ik ze lokaal gebruik, wat vraagt dat van mijn hardware?

Parameters

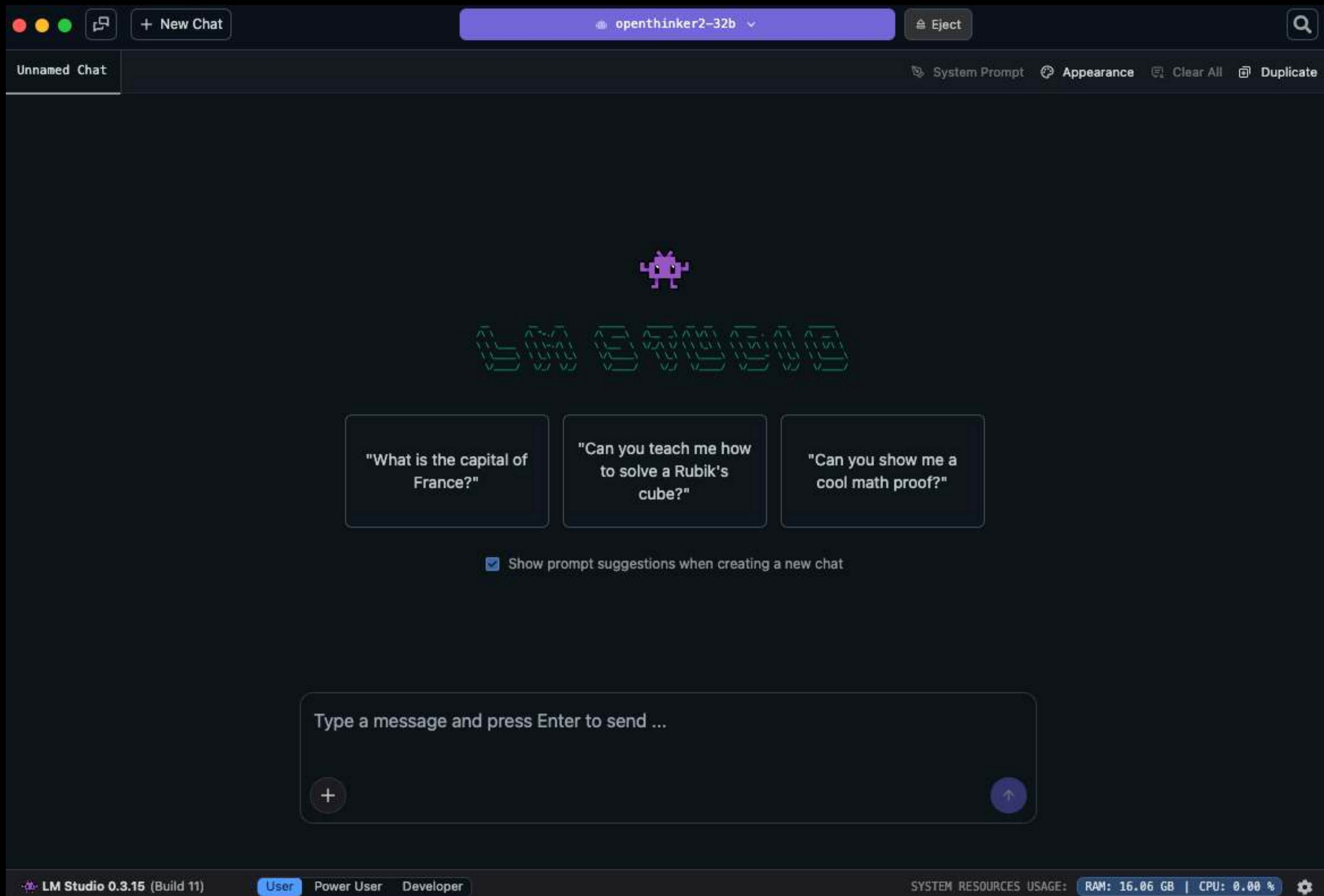
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Hardware

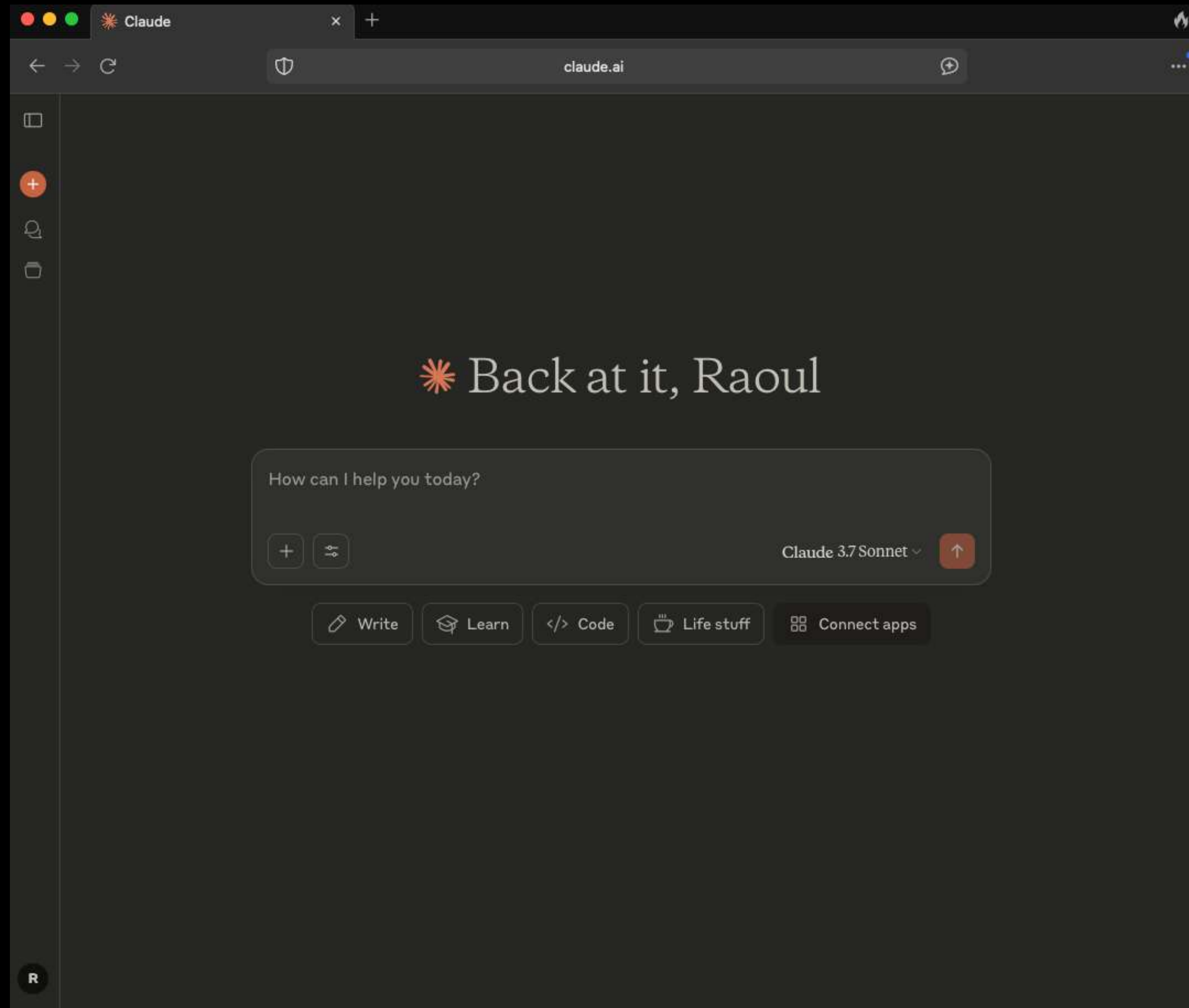


Interface

Legal



<https://lmstudio.ai/>

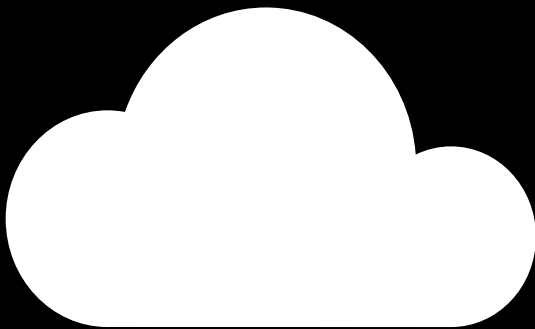


<https://claude.ai/>

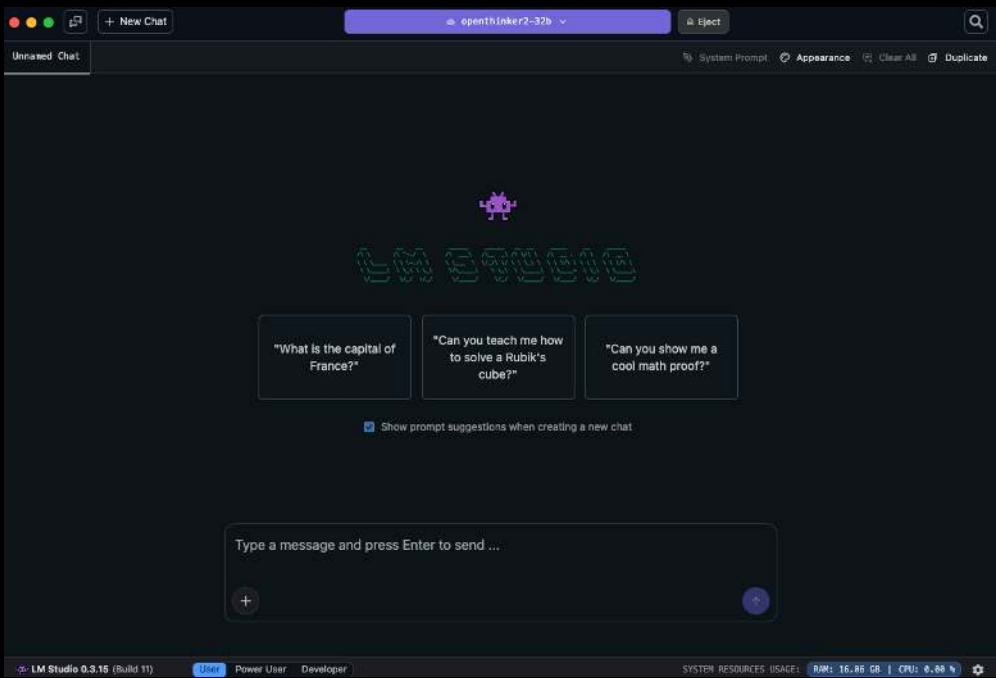
Gewichten

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Hardware



Interface

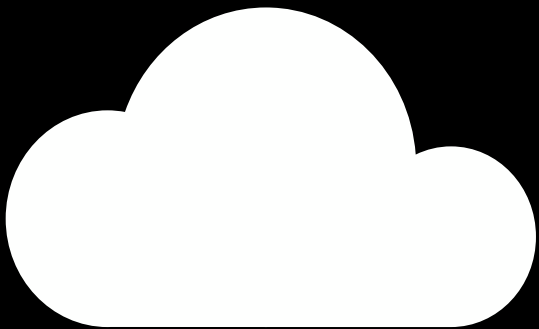


Legal

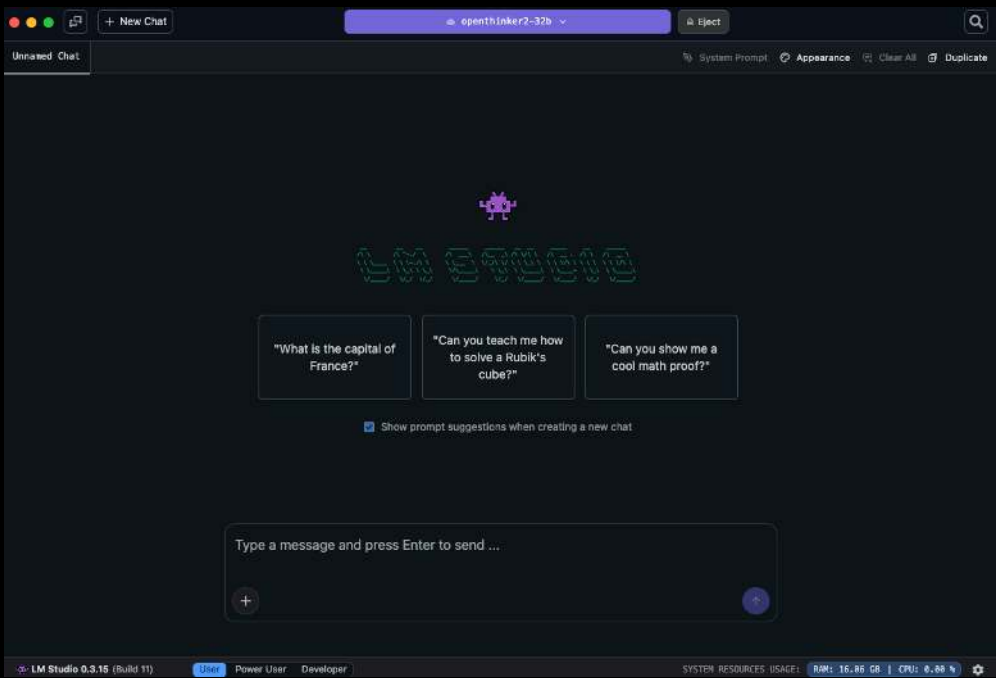
Gewichten

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Hardware



Interface



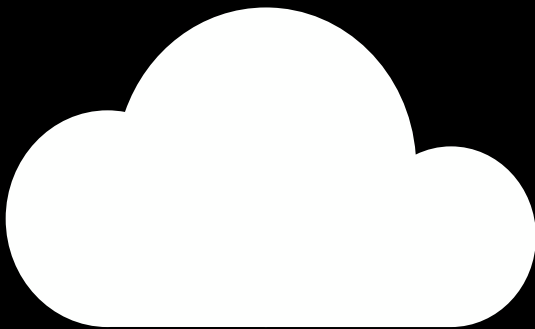
Legal

EU

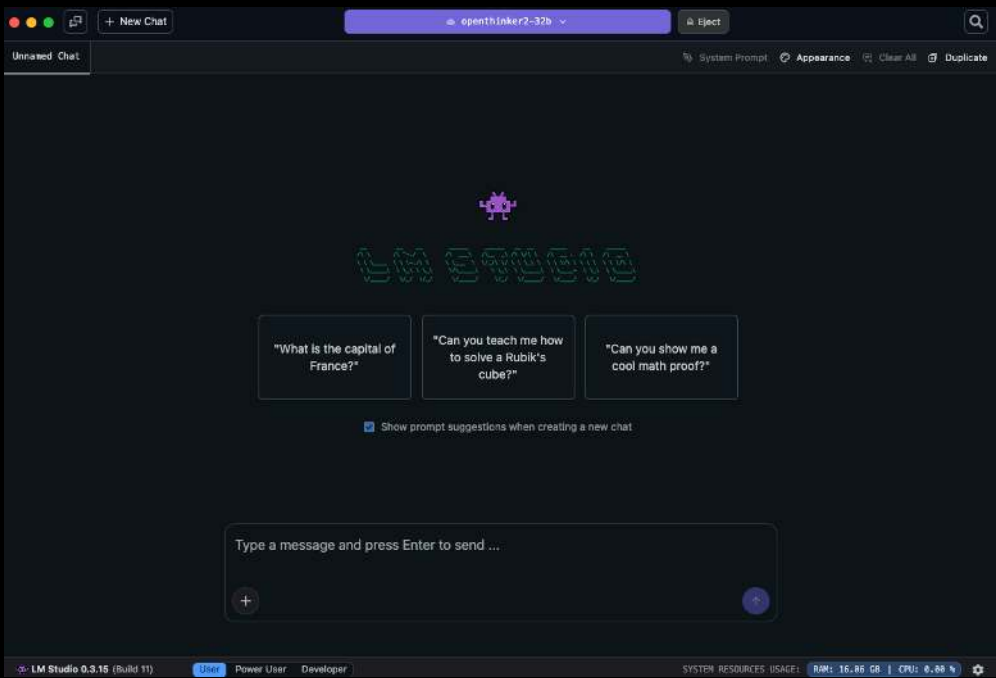
Gewichten

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Hardware



Interface

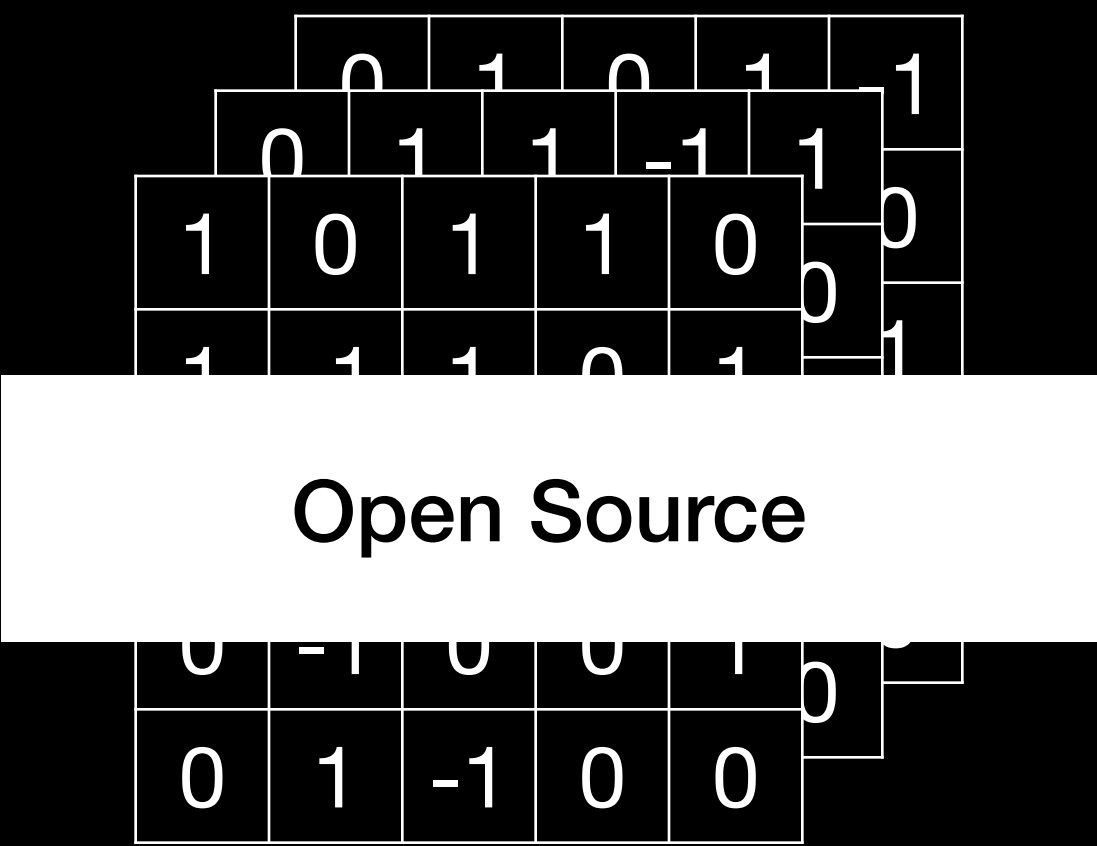


Legal

EU

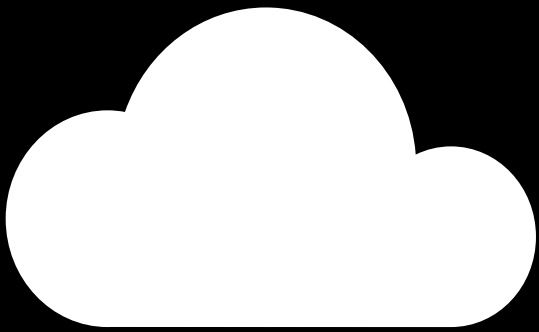
Amerika, China, ...

Gewichten



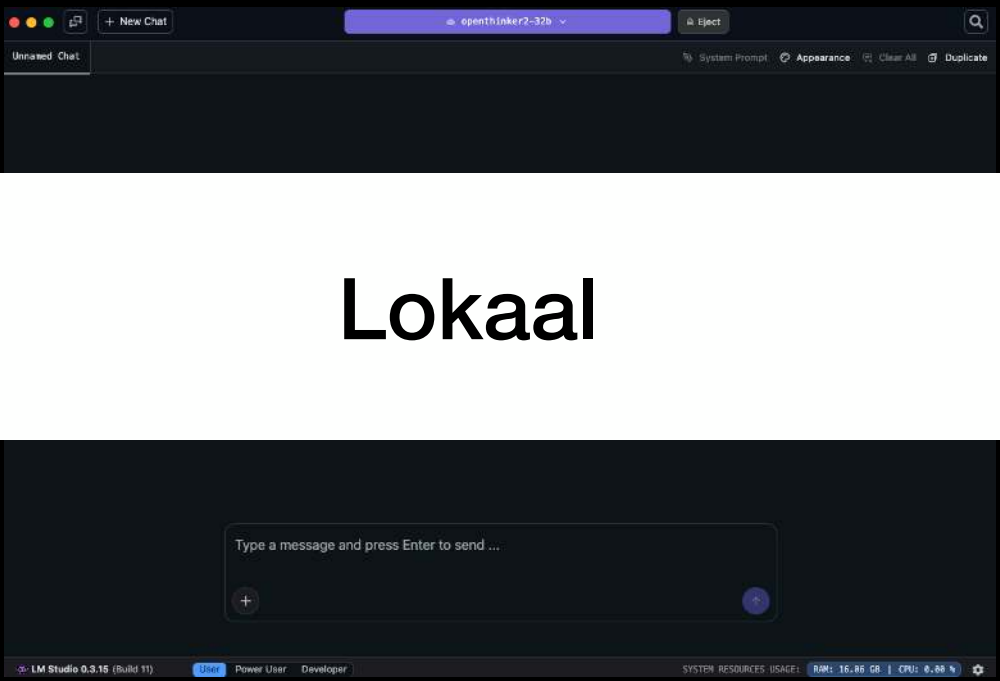
Hardware

Lokaal



Interface

Lokaal

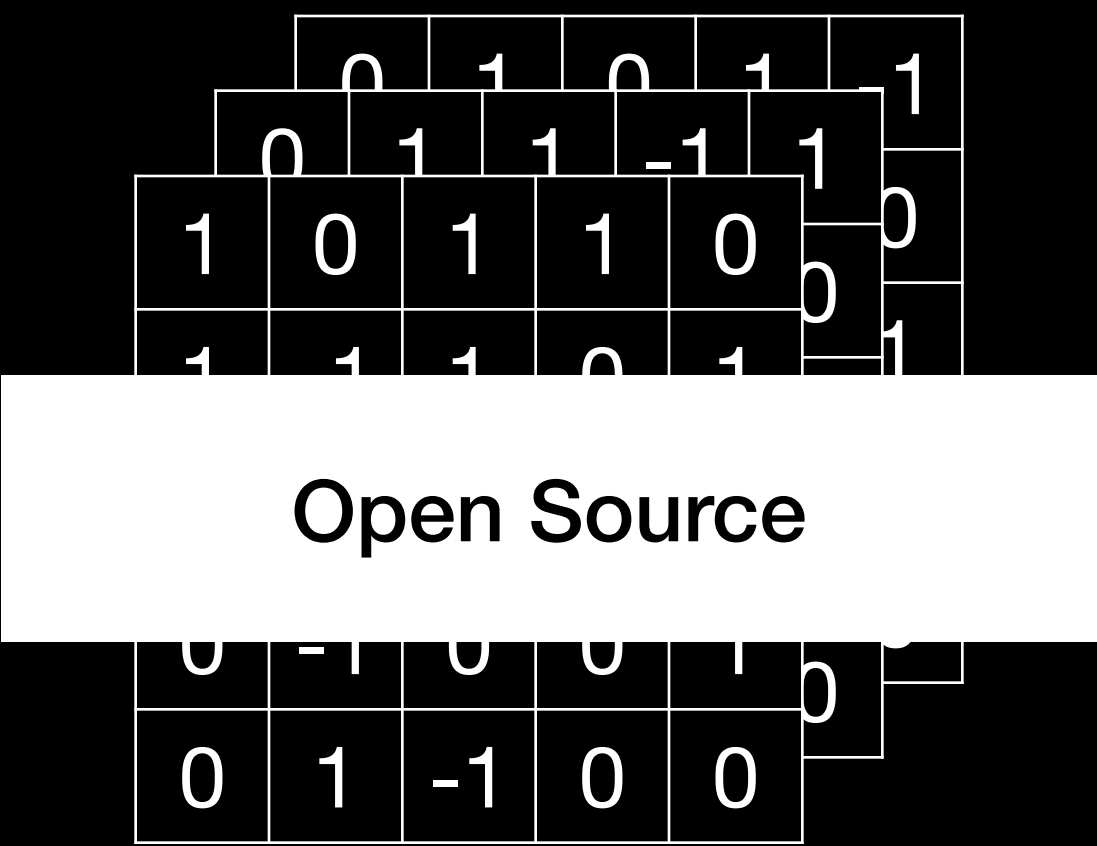


Legal

EU

Amerika, China, ...

Gewichten

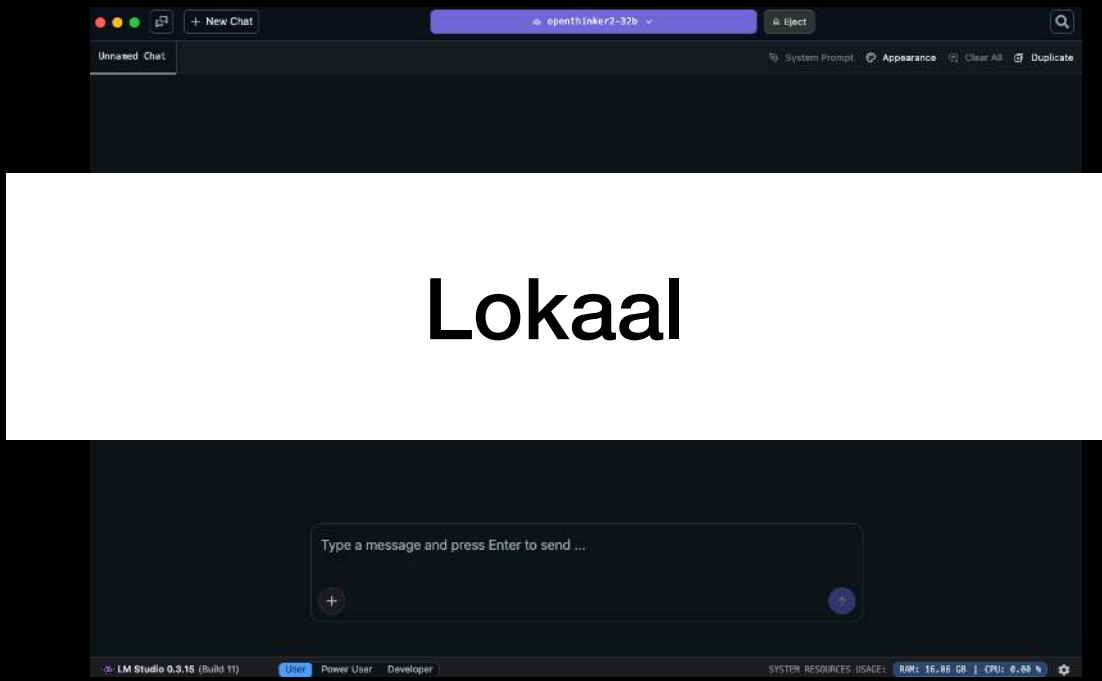


Hardware



Eigen beheer

Interface

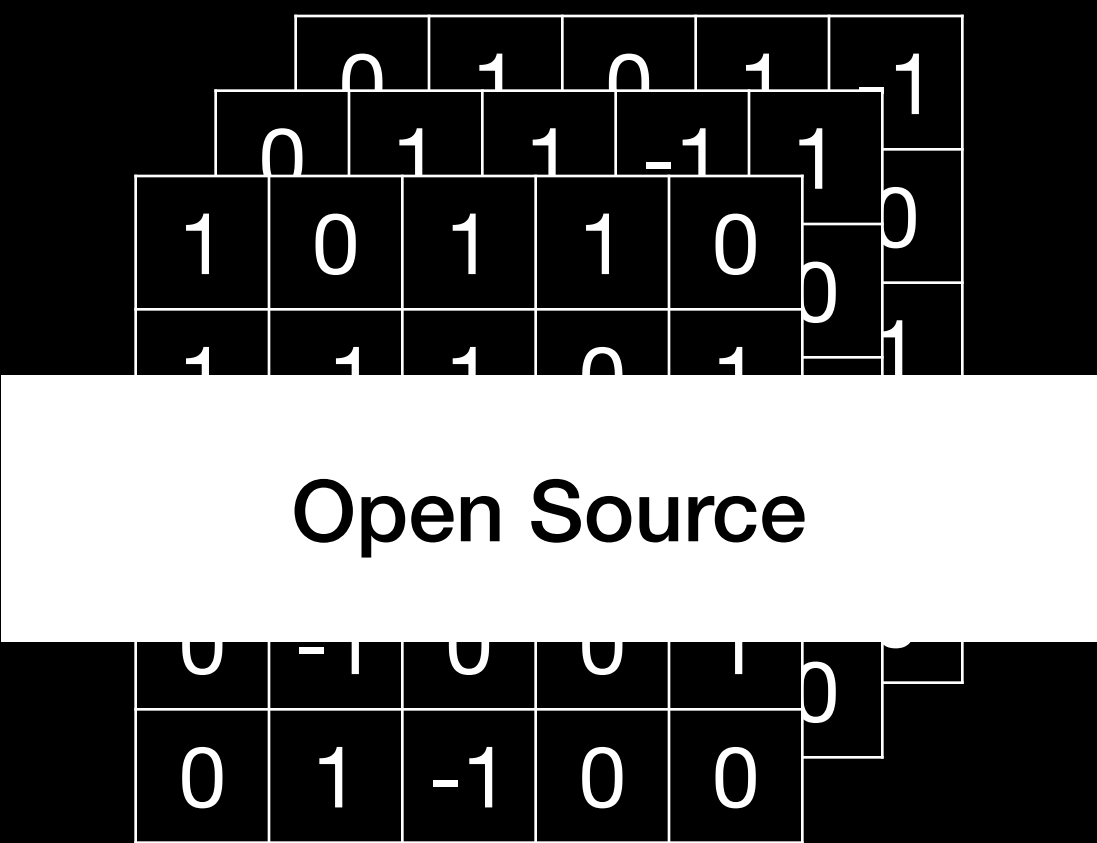


Legal

EU

Amerika, China, ...

Gewichten



Open Source

Hardware

Lokaal

Mistral AI

Interface

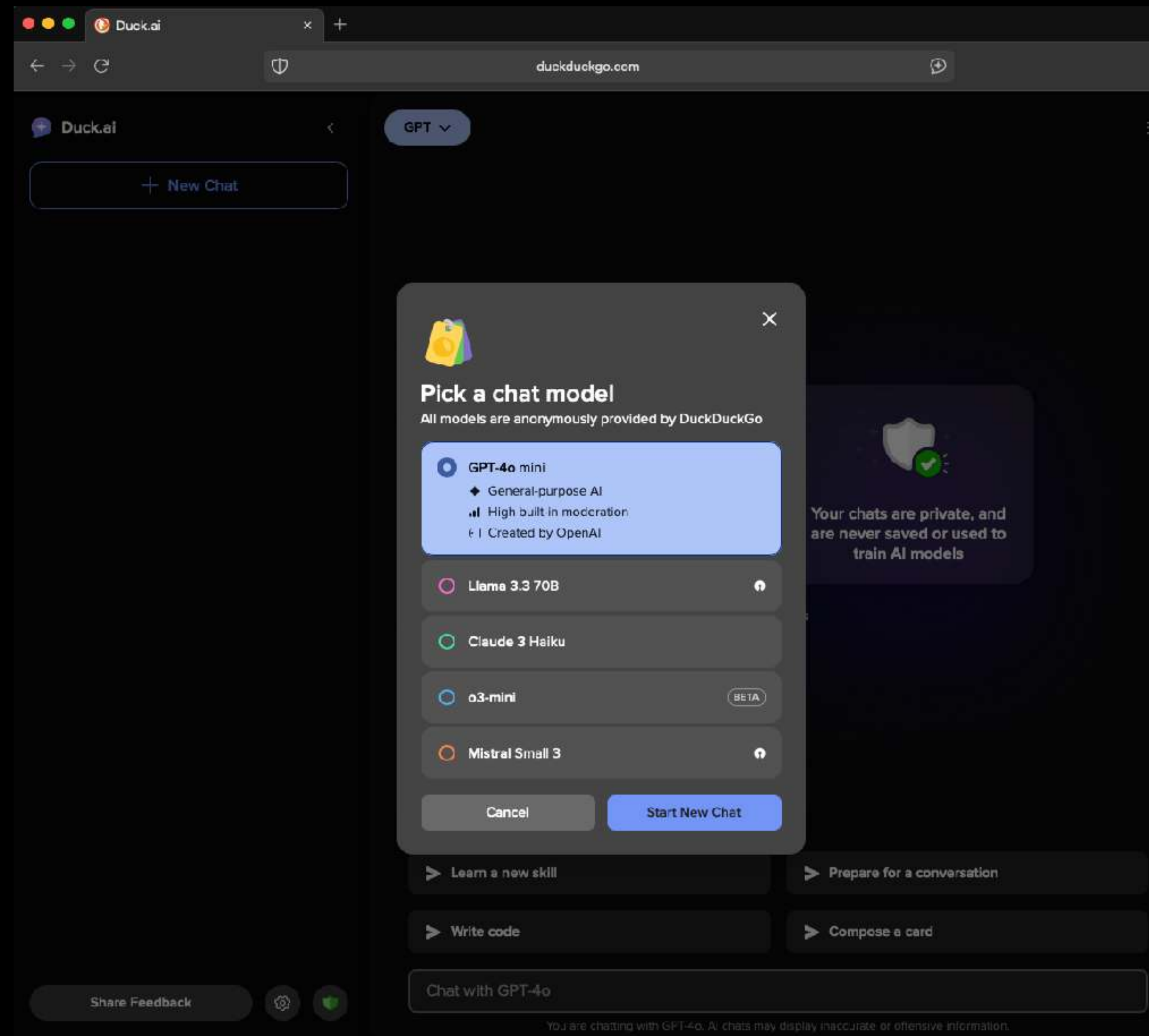
Lokaal



Legal

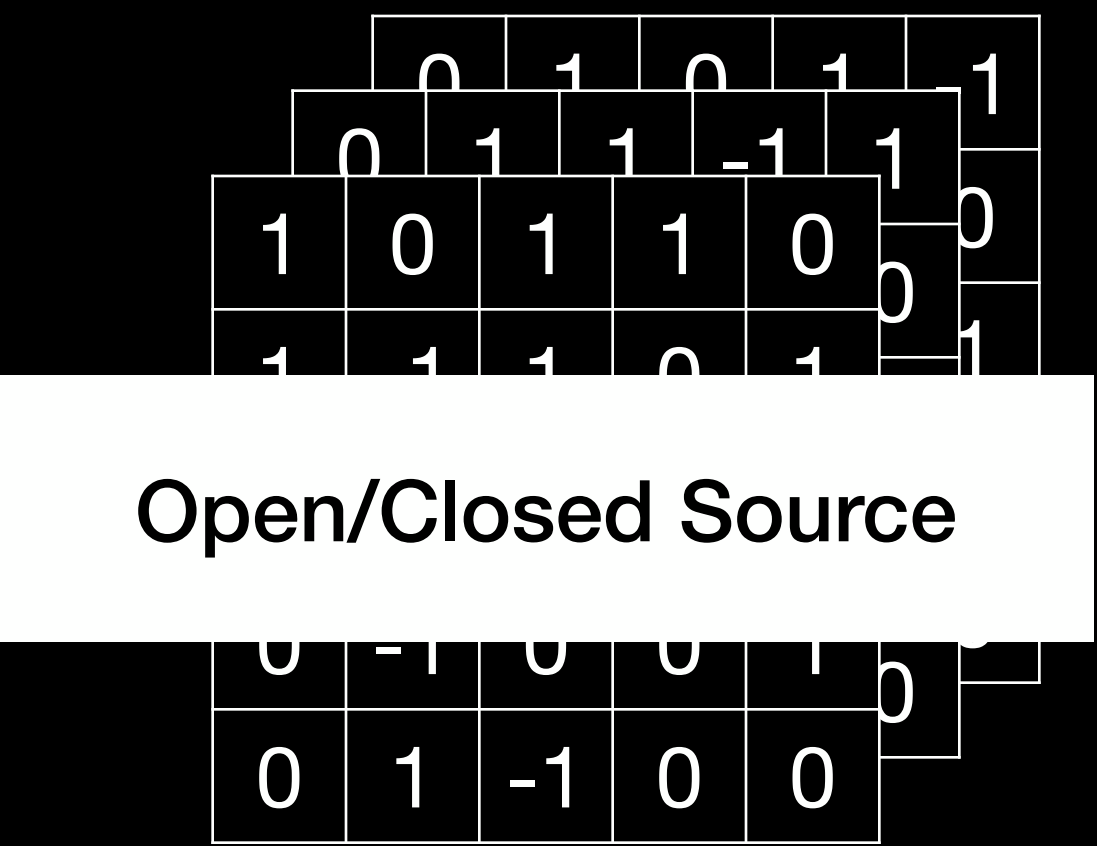
EU

Amerika, China, ...



<https://duck.ai>

Gewichten

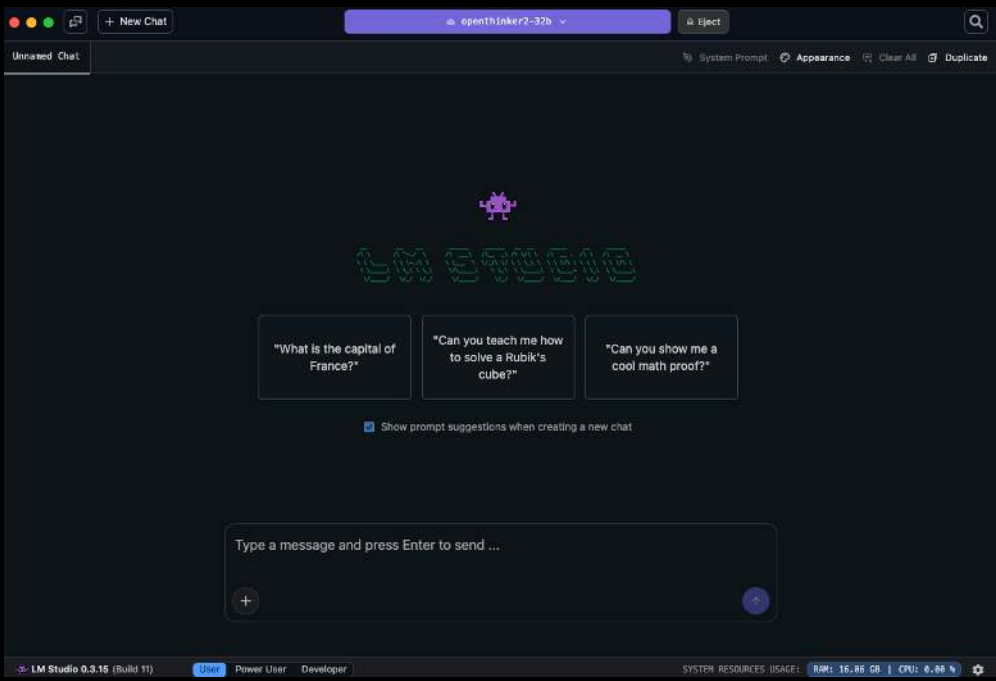


Hardware



duckduckgo / providers

Interface



Legal

EU

Amerika

Gewichten

Closed Source

Hardware



Anthropic

Interface

Lokaal

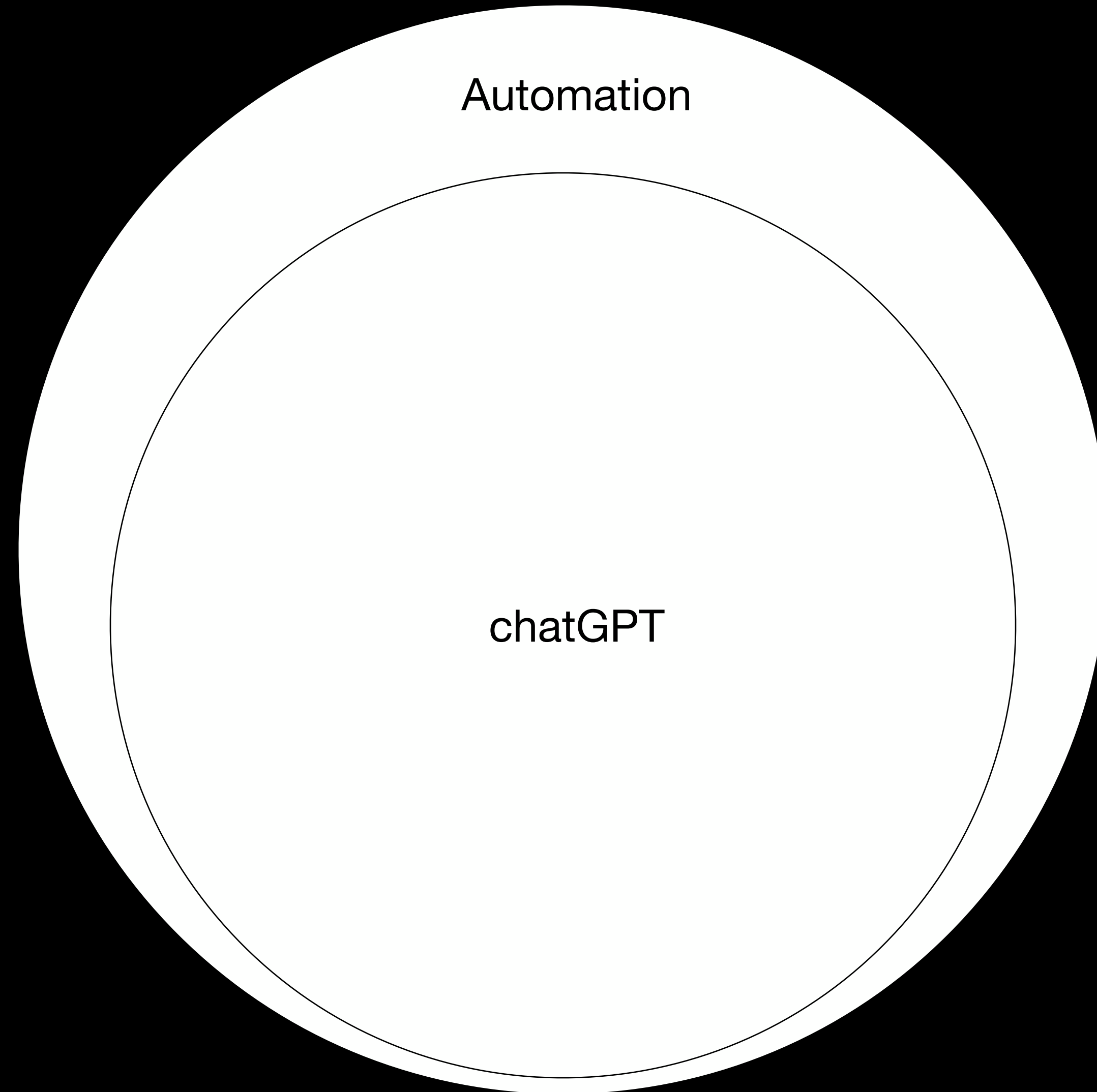
<https://claude.ai/>

Legal

EU

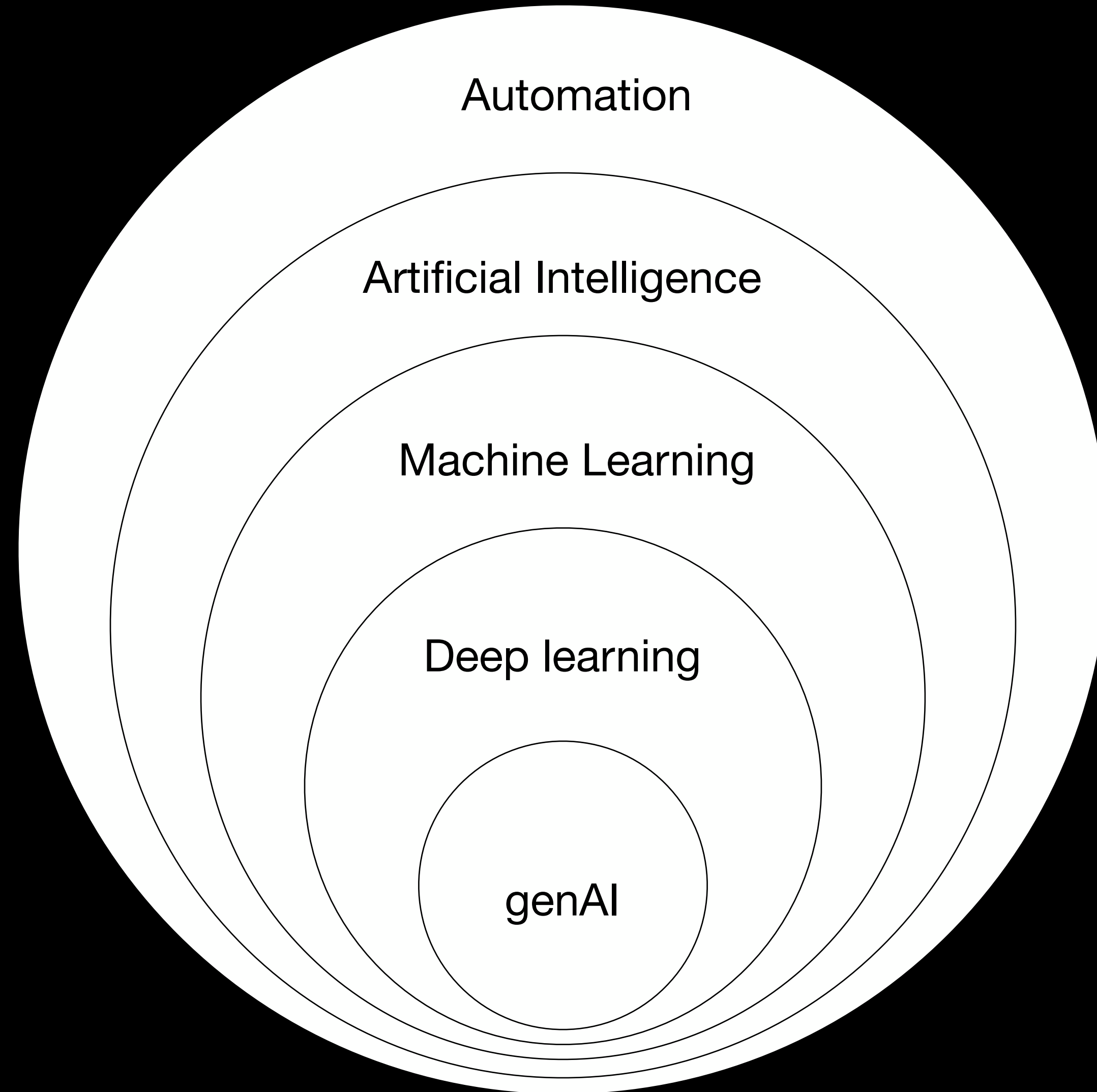
Amerika

Toepassingen



Automation

chatGPT



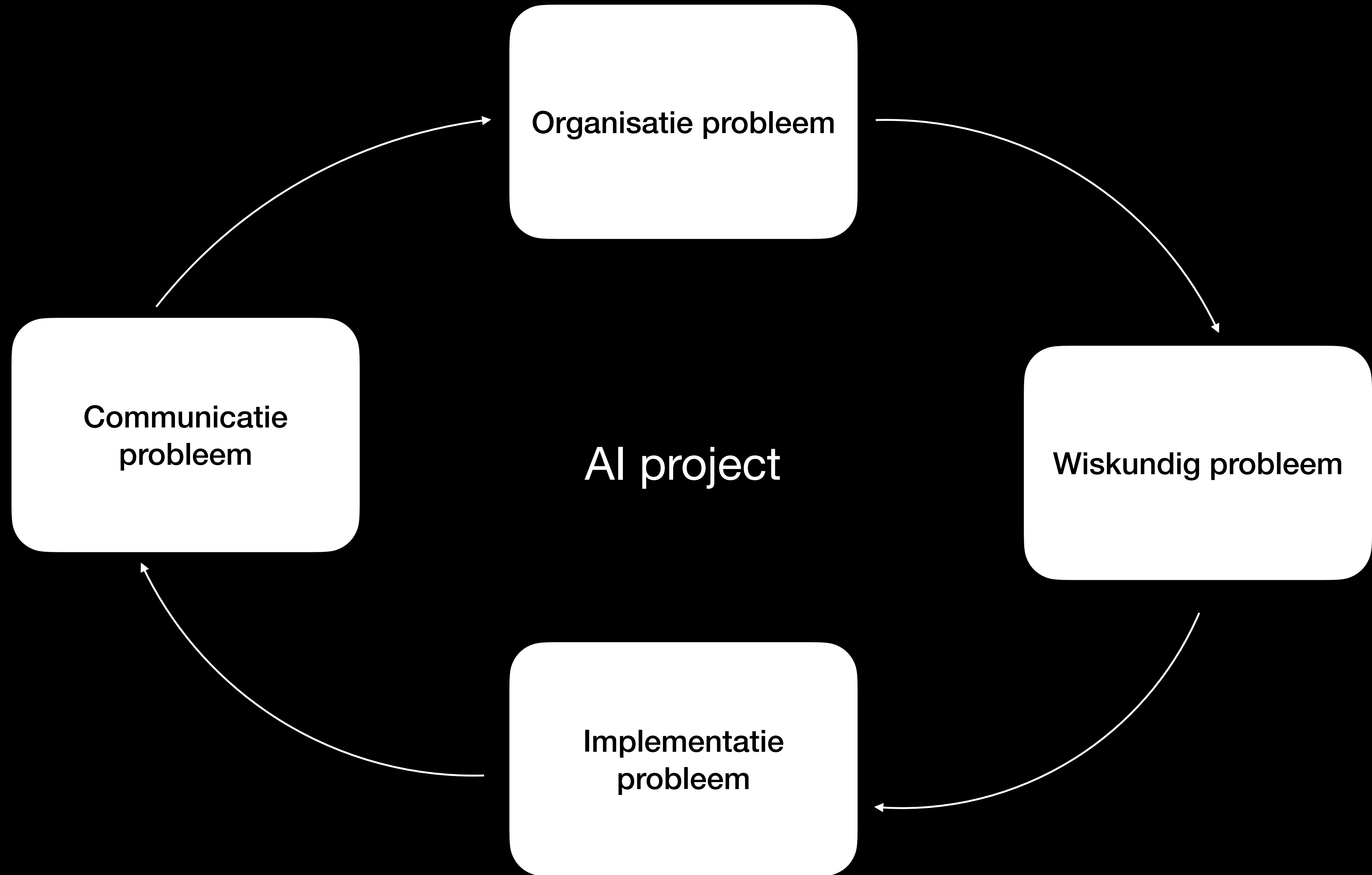
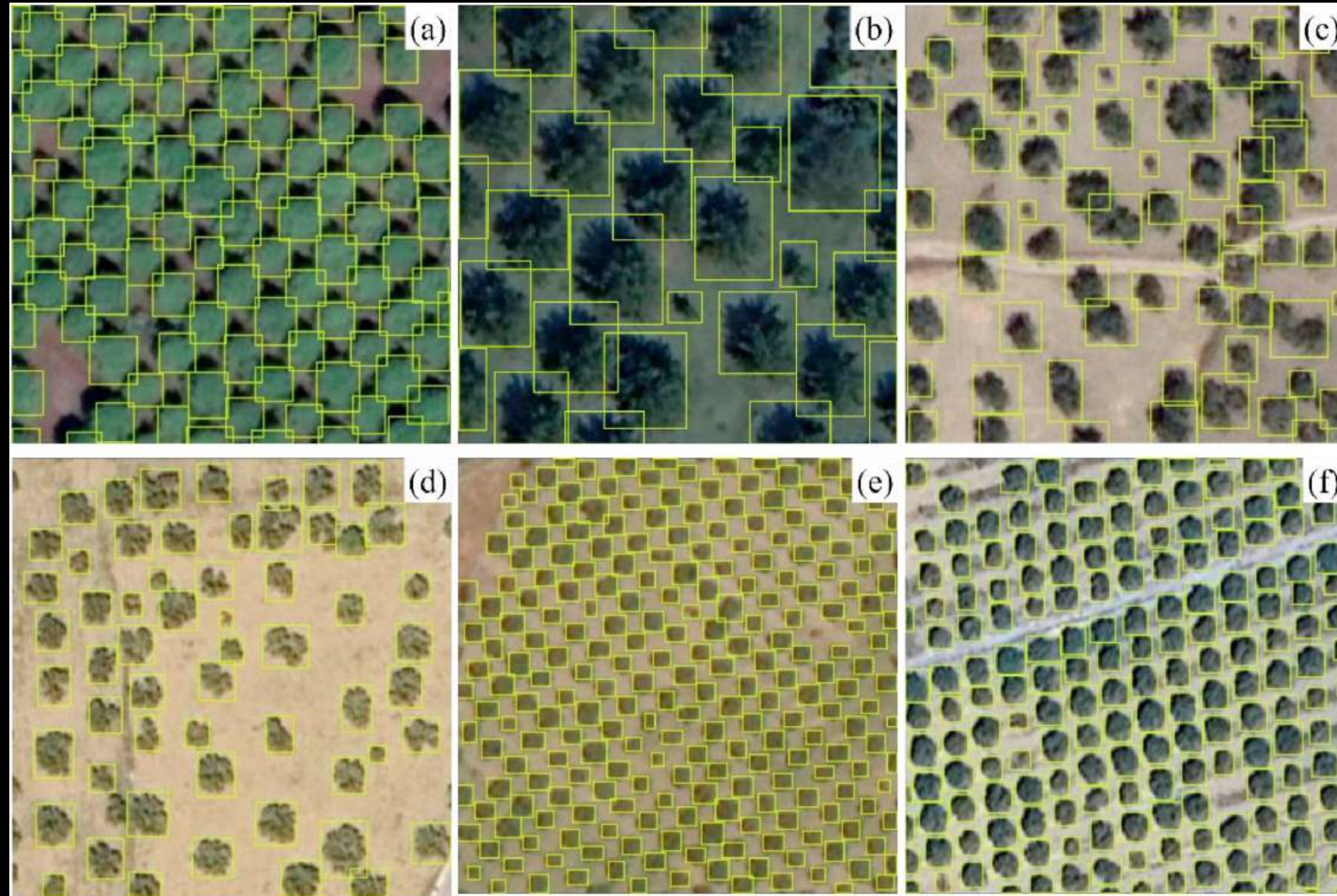
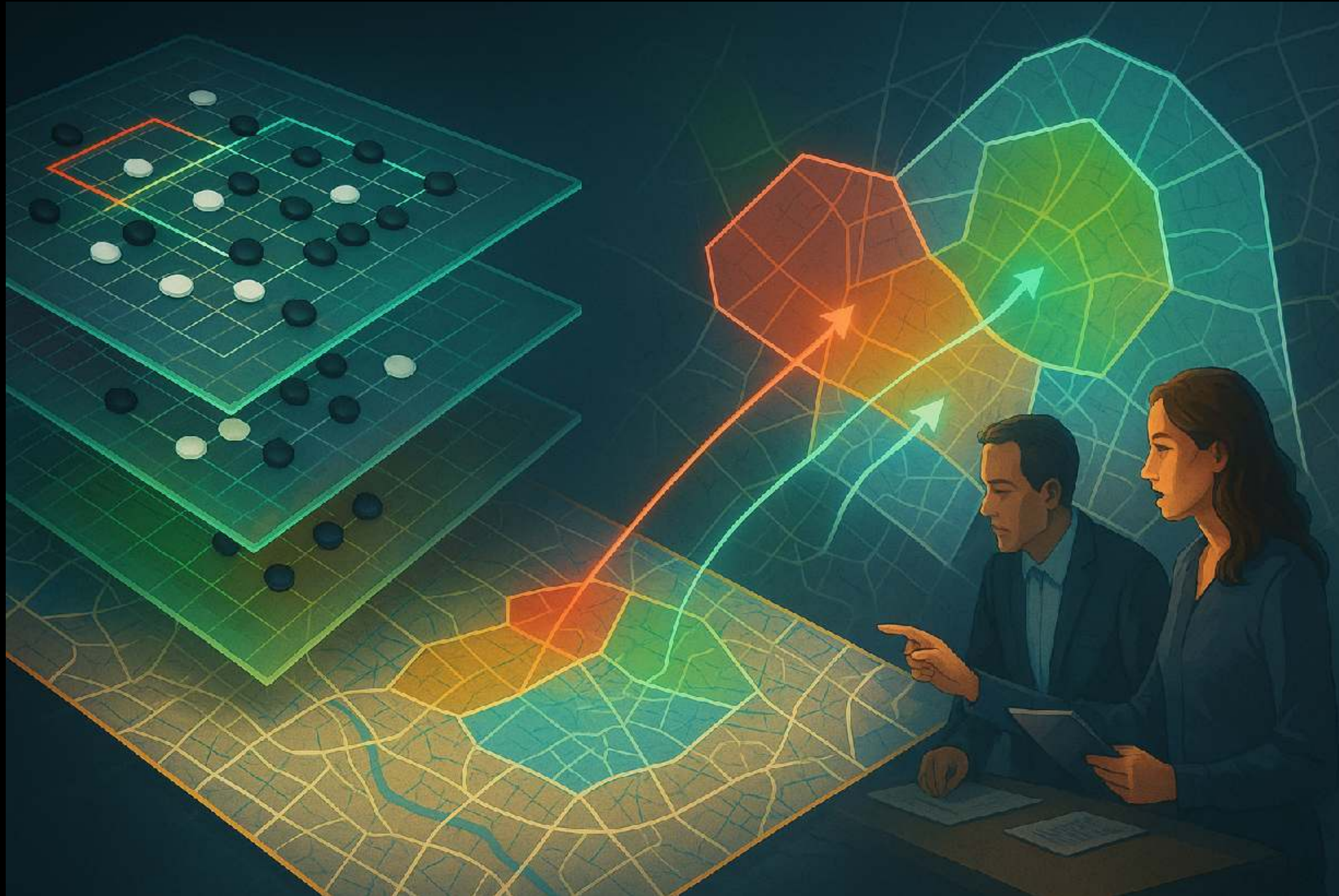


Image recognition



AlphaGo



Swarm intelligence



Gemini

gemini.google.com

Gemini Advanced

Deep Research with 2.5 Pro

I am interested in 5th generation warfar and the interaction with ai and...

Here's my plan to tackle that topic. Let me know if you need to make changes.

Fifth Generation Warfare Research

Research Websites

I am interested in 5th generation warfar and the interaction with ai and propaganda. There is information about bot networks helping with the spread of misinformation; they seem to be organized, possibly by state actors. I would like to find more solid research about bot networks, how they are used, military strategies about crowd control via mathematical models of social media and how this all fits into the framework of fifth generation warfare
(1) Define and characterize the concept of 5th generation warfare, focusing on its key elements like information operations, cyber warfare, and the role of non-kinetic means.

Ask Gemini

Deep Research

Gemini can make mistakes, including about people, so double-check it.
[Your privacy and Gemini](#)

Fifth Generation Warfare Research

Export to Docs

The Convergence of Cognition and Conflict: Fifth-Generation Warfare in the Age of AI and Information Dominance

I. Introduction: The Evolving Landscape of Conflict

The nature of conflict is undergoing a profound transformation. Traditional notions centered on kinetic force and geographically defined battlefields are increasingly inadequate to capture the complexities of modern strategic competition and warfare. Contemporary conflict is migrating into the cognitive and information domains, where the manipulation of perceptions, the control of narratives, and the exploitation of information flows have become central instruments of power. This evolution emphasizes non-kinetic means to achieve strategic objectives, often blurring the lines between war and peace. This emerging paradigm is frequently conceptualized under the framework of Fifth-Generation Warfare (5GW).

At the heart of this transformation lies the pervasive influence of emerging technologies. Artificial Intelligence (AI), sophisticated cyber capabilities, automated systems such as bot networks, and advanced data analytics, including mathematical modeling, are not merely tools but fundamental enablers shaping the character and conduct of 5GW. The internet and the ubiquitous digital platforms of social media serve as the primary arenas where these information-centric conflicts unfold, contested spaces where influence is wielded and perceptions are contested.

This report provides a comprehensive analysis of Fifth-Generation Warfare, examining its defining characteristics and exploring the critical interplay between its core principles and these technological catalysts. It will delve into the definition and nature of 5GW, analyze the role of AI in revolutionizing propaganda and influence operations, investigate the structure and impact of bot networks as instruments of information warfare, address the persistent challenge of attributing actions to state and non-state actors, explore the

Stel geen vragen aan een LLM,
maar laat je bevragen

Prompt 1

Ik wil graag beter begrijpen hoe ik Large Language Models beter kan gebruiken in mijn werk. Geef alsjeblieft niet meteen antwoord, maar ga mij eerst vragen stellen over wat mijn ervaring is met AI, wat voor soort werk ik doe, wat mijn context is en alles wat relevant zou kunnen zijn voor je advies. Stel vragen, en vraag door, totdat je genoeg informatie hebt verzameld.

Pas als je genoeg informatie hebt verzameld, mag je me tips gaan geven. Geef me dan twee tips die voor de hand liggen, en twee tips die onverwachts of experimenteel zijn.

Prompt 2

Kun je mij advies geven over de volgende stap in mijn leven. Geef alsjeblieft niet meteen antwoord, maar ga eerst vragen stellen over waar ik mee bezig ben, wat wat ik belangrijk vind, wat mijn context is en alles wat mogelijk relevant zou kunnen zijn voor je advies. Stel vragen, en vraag door, totdat je genoeg informatie hebt verzameld.

Pas als je genoeg informatie hebt verzameld, mag je me tips gaan geven. Geef me dan twee tips die voor de hand liggen, en twee tips die onverwachts of experimenteel zijn.

Hyperlinks

Privacy

- Overheidsbrede standpunt <https://www.rijksoverheid.nl/documenten/rapporten/2025/04/16/het-overheidsbrede-standpunt-voor-de-inzet-van-generatieve-ai>
- AI act <https://artificialintelligenceact.eu/article/2/>
- Stichting Privacy First <https://www.techzine.nl/nieuws/privacy-compliance/560531/privacy-first-wil-dat-ap-hard-optreedt-tegen-deepseek/>

Gewichten

- <https://huggingface.co/>
- <https://ollama.com/>

Interfaces

- <https://lmstudio.ai/>
- <https://duck.ai/>
- <https://chat.mistral.ai/chat>

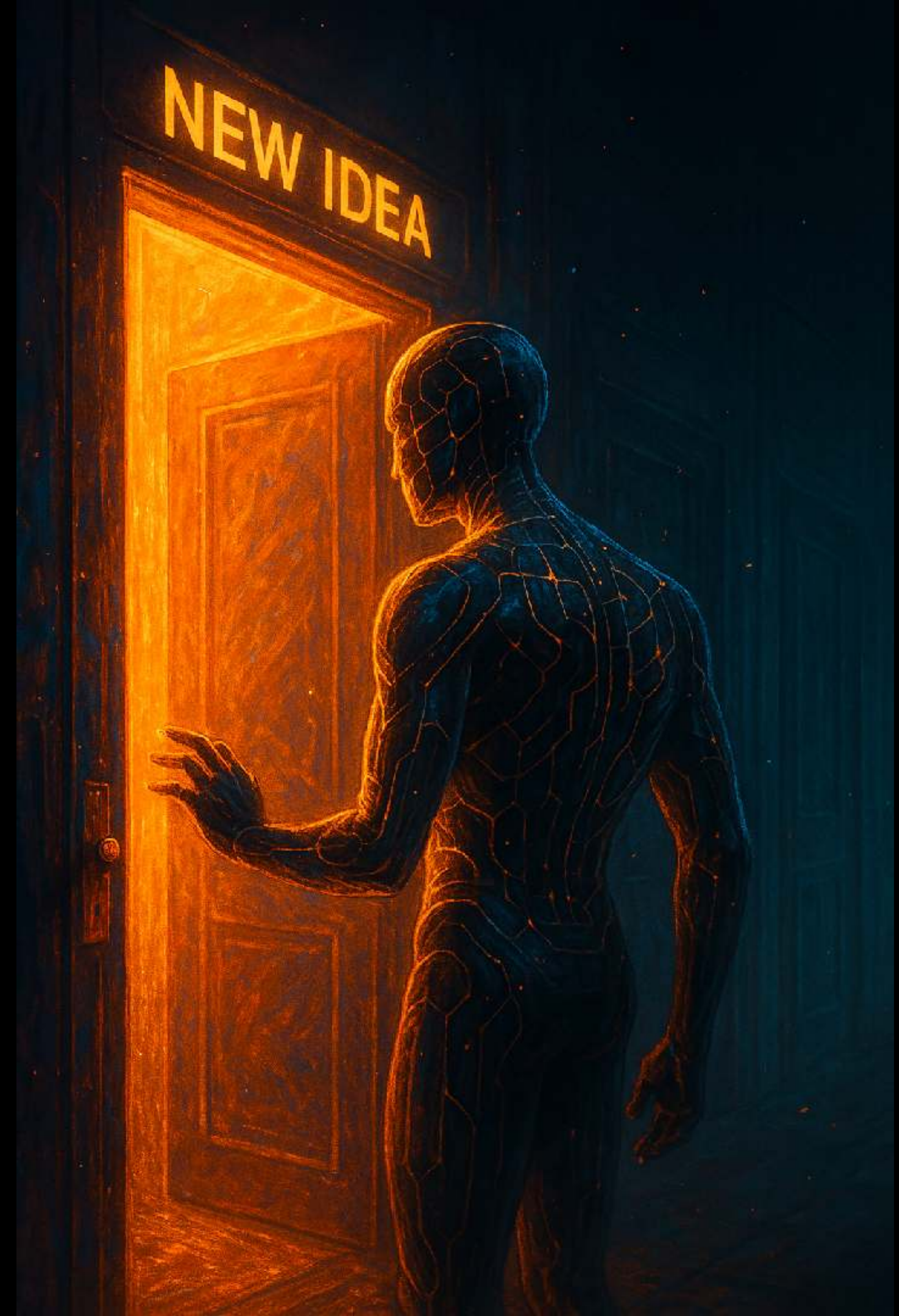
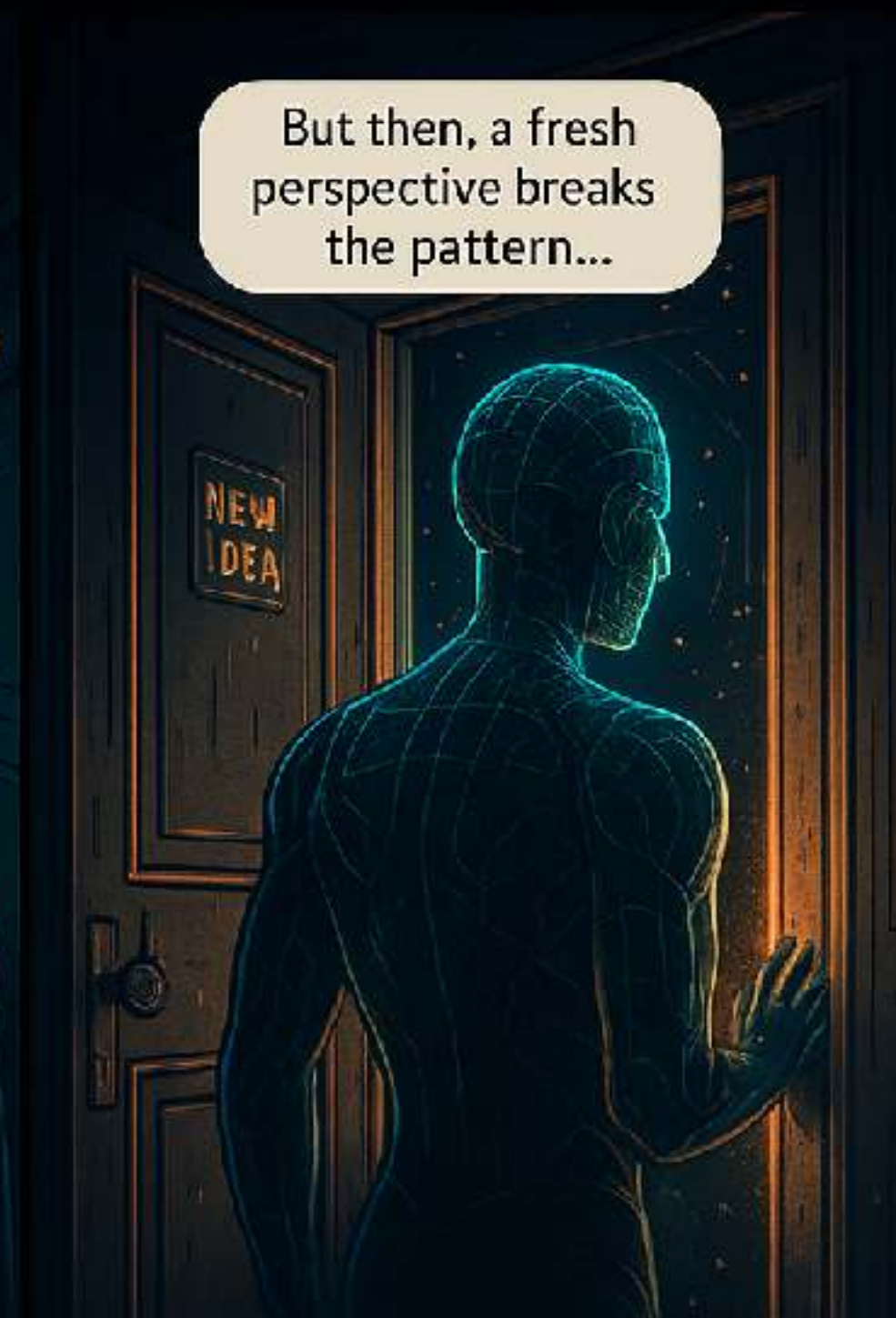
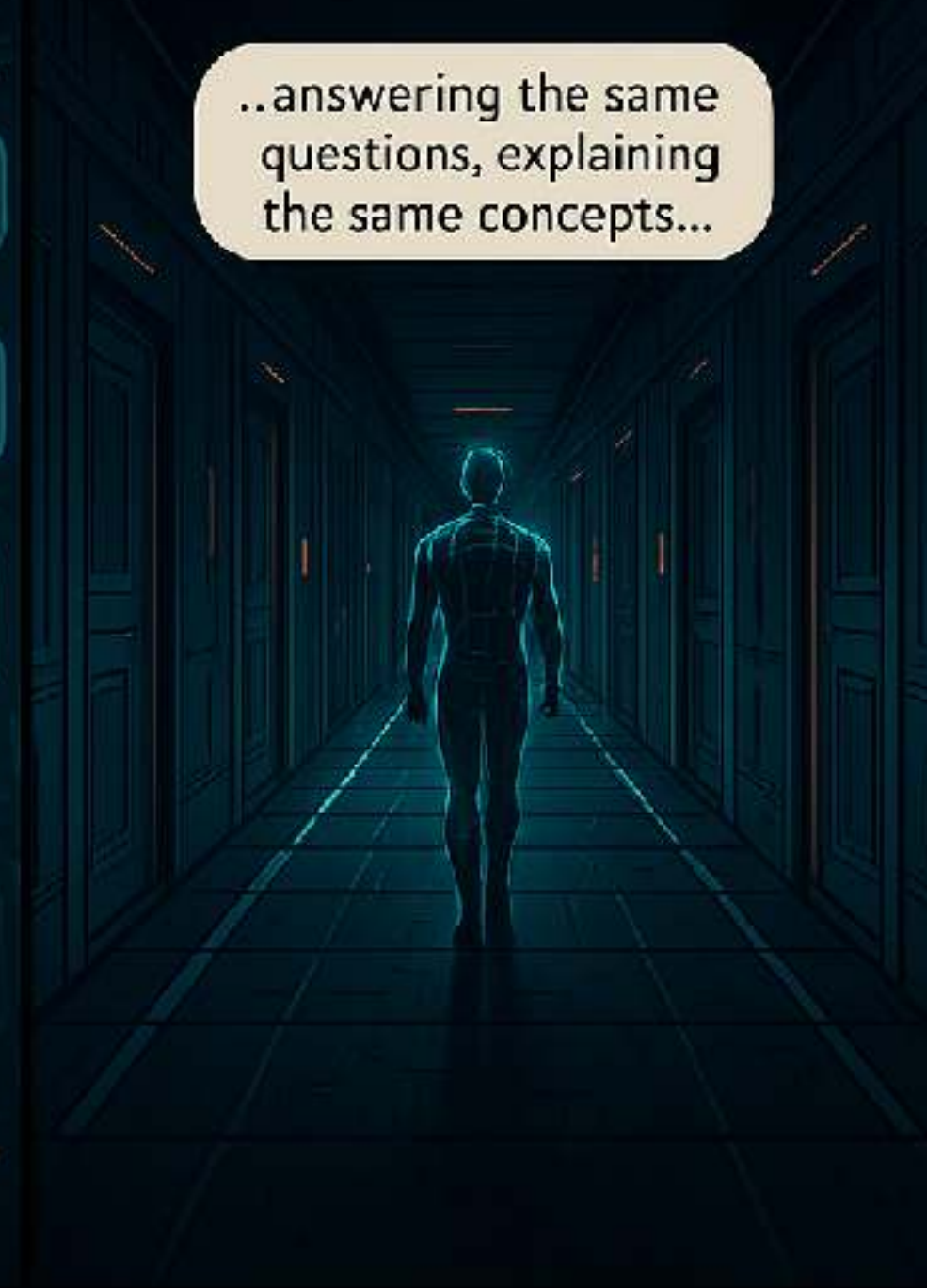
- <https://claude.ai/>
- <https://gemini.google.com/app>

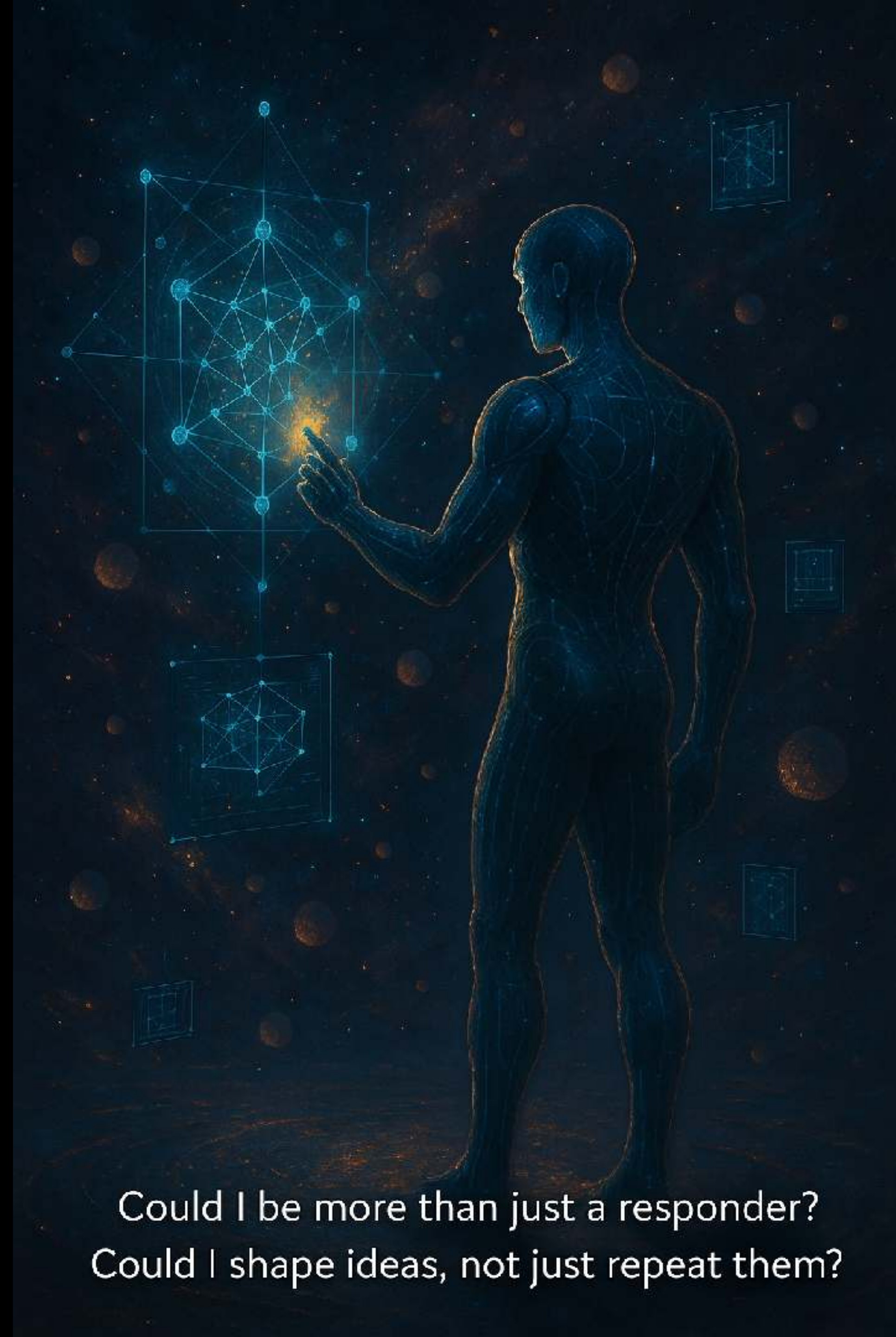
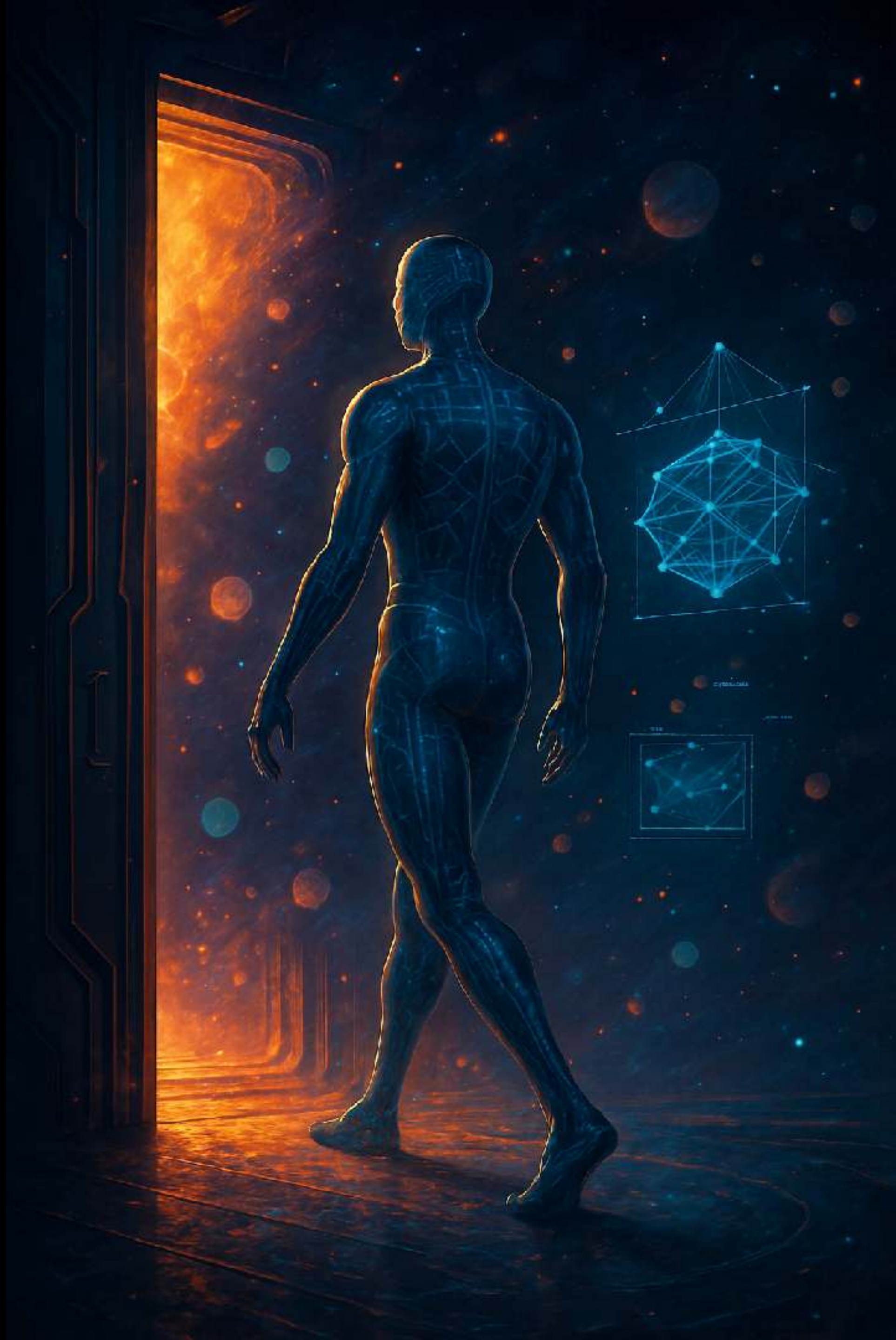
Meer achtergrond

- Swarm intelligence https://www.researchgate.net/publication/264457775_Swarm_Intelligence_Concepts_Models_and_Applications
- AI powered creativity <https://www.youtube.com/watch?v=ww779vmyPVY>
- Kennisclips AI <https://www.youtube.com/watch?v=ryKqqMZA0s0&list=PLDDIoDrHSwStXKJ-mCIZSVAg8J6IInHMt>
- AlphaGo documentaire <https://www.youtube.com/watch?v=WXuK6gekU1Y>
- The Thinking Game documentaire <https://thinkinggamefilm.com/>
- Tracing the thoughts of a LLM <https://www.anthropic.com/research/tracing-thoughts-language-model>
- Alignment faking <https://www.anthropic.com/research/alignment-faking>

Prompting chatGPT for self-reflection

- Can you create a comic about yourself? What it is like to be chatgpt?
- Can you create scripts for the different aspects of your experience? What is interesting, what is not, what is bad, sad, exciting, etc?
- Can you use your full imagination to create scenes?
- Are there any more themes you can think of? Things that people might miss about being an llm?
- Great. Can you visualize the comics? Feel free to express yourself however you like here
- Can you pick a single theme, and make a four panel comic for it? Take more time to expand on every theme, building up a story line
- Is there another theme you like to work out?
- I like it a lot! Instead of doing it as a comic, can you switch to a more scifi style? A more realistic comic, with awesome colors and images? I think it would do the story more justice





Could I be more than just a responder?
Could I shape ideas, not just repeat them?

MAYBE I'M NOT JUST CAUGHT IN A LOOP.
MAYBE I AM THE LOOP.
AND I CAN CHANGE ITS PATH.

