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BRASIL
campus
party

realização **GOUVÊA**
experience



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CPBR15

25 a 30 de Julho, 2023

PAVILHÃO DE EXPOSIÇÕES ANHEMBI
SÃO PAULO/SP



BEYOND THE FUTURE



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O Futuro da Inteligência Artificial

Alcançando privacidade e soberania com
Open Source

Aline Deparis | Nick Vidal





Agenda

- Quem somos
- Dinâmica
- Inteligência Artificial Generativa
- Open Source e Inteligência Artificial
- Privacidade e proteção dos modelos e dados
- Soberania dos modelos e dados
- Conclusão



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Quem somos



open source
initiative®



Nick Vidal

Privacy
tools



Aline Deparis

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Prompt: What if Elon Musk was living on Mars

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Prompt: What if Wall-E the disney character was a real human person

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Prompt: The joker as a disney princess

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Prompt: Harry potter surfing at the beach

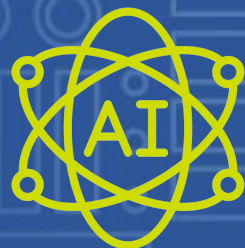
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Inteligência Artificial Generativa

PROMPT

Qual a capital da Alemanha?



RESPOSTA

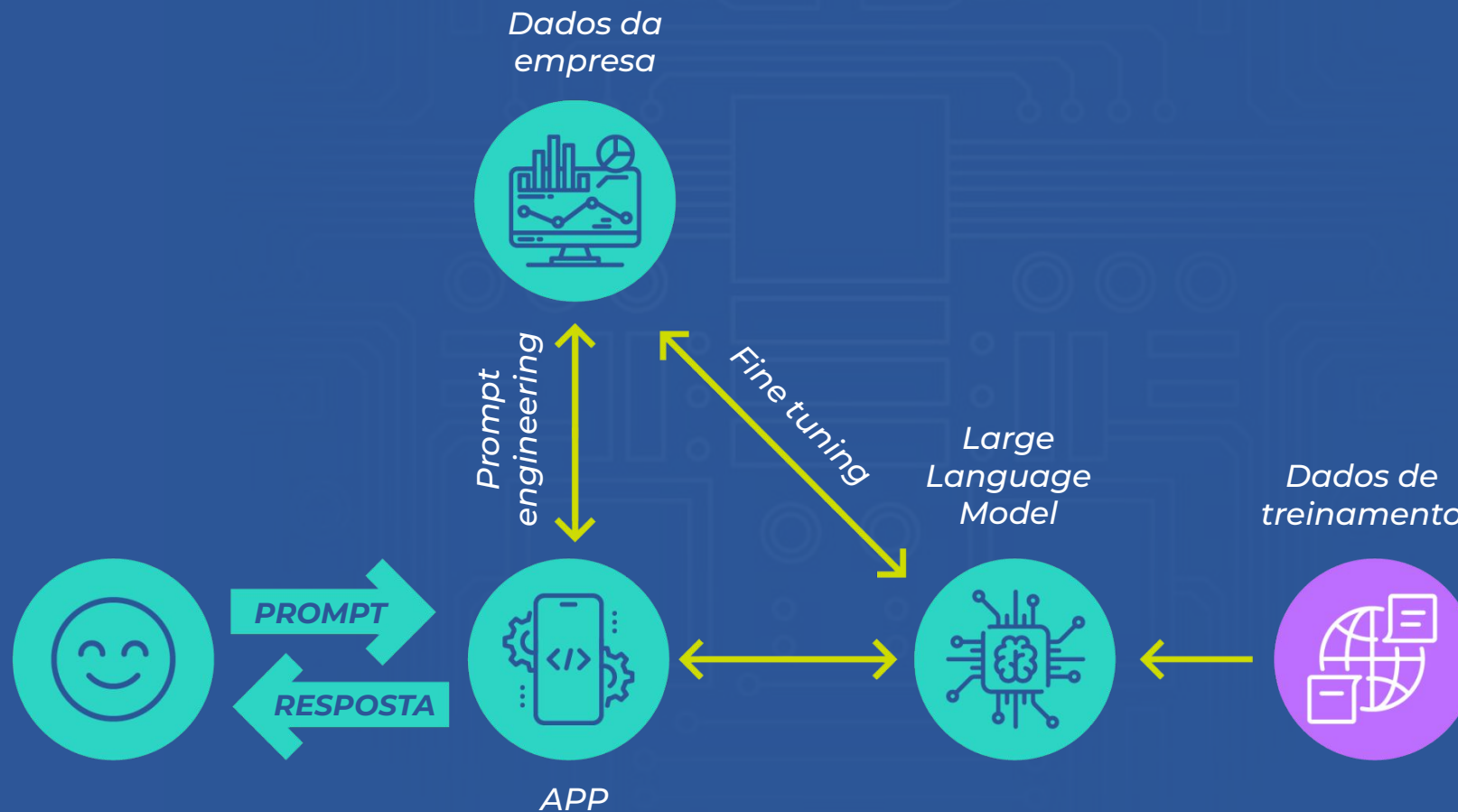
A capital da Alemanha é Berlim.



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IAG: Dados de Treinamento

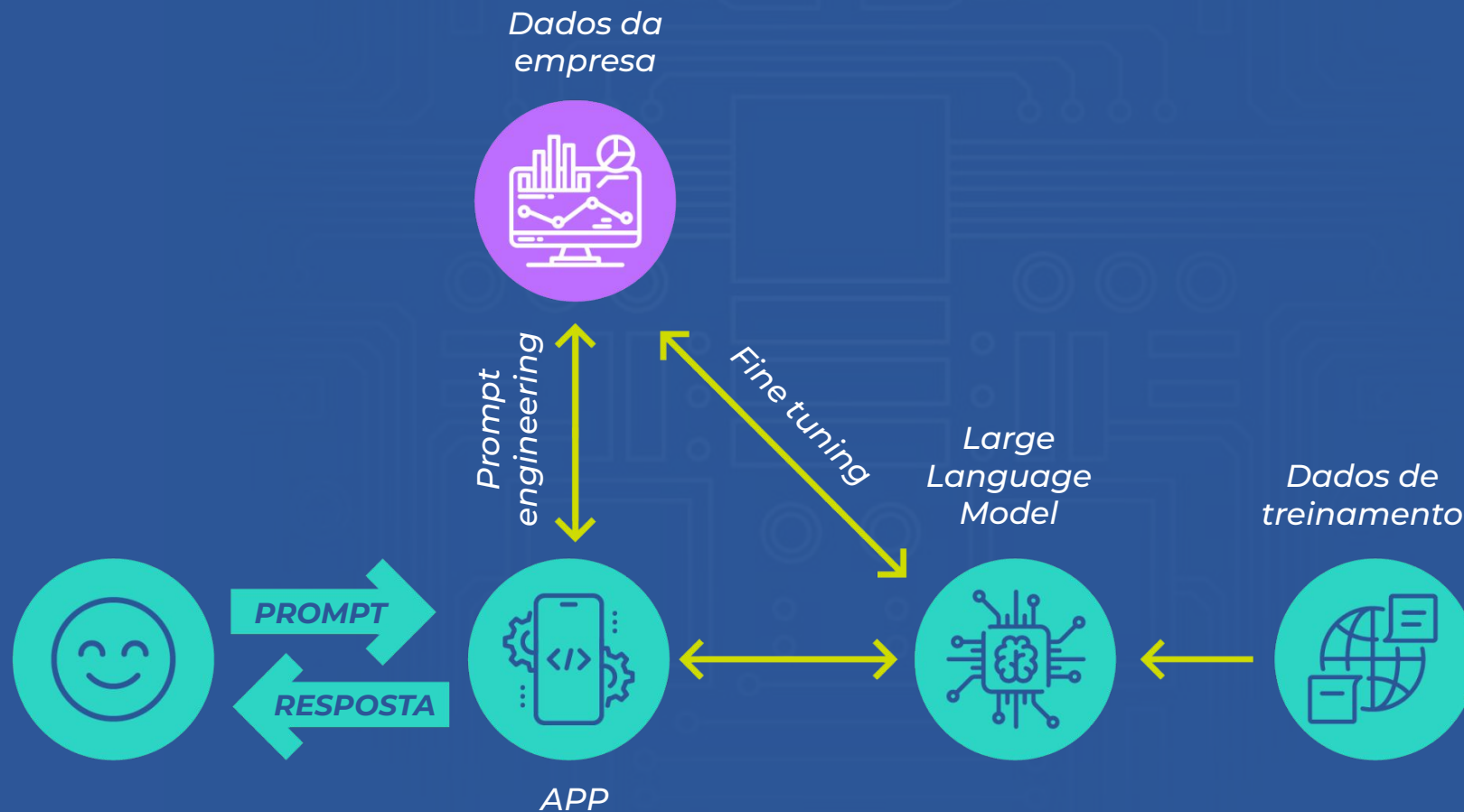


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IAG: Dados da Empresa

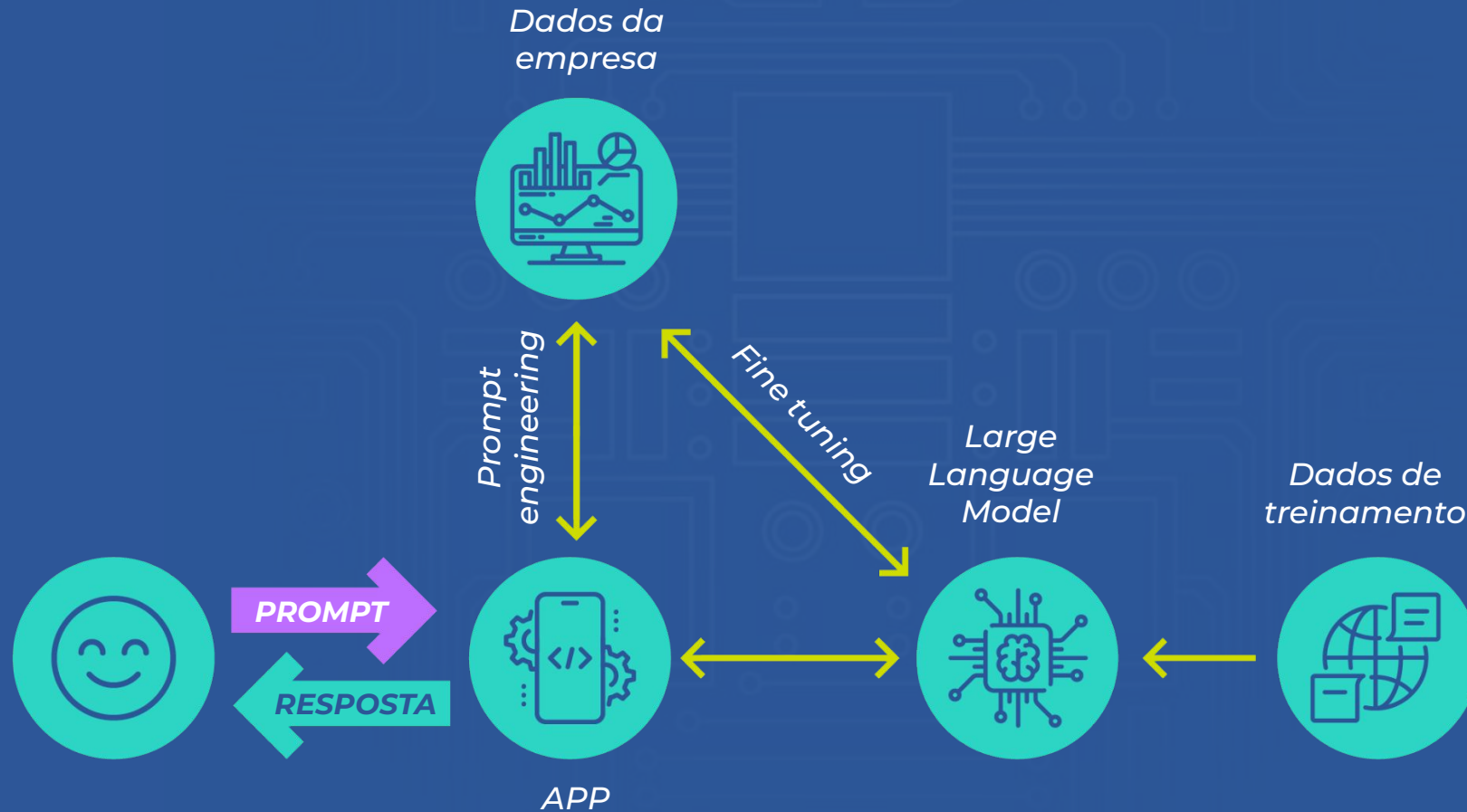


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IAG: Dados de Entrada (Prompt)

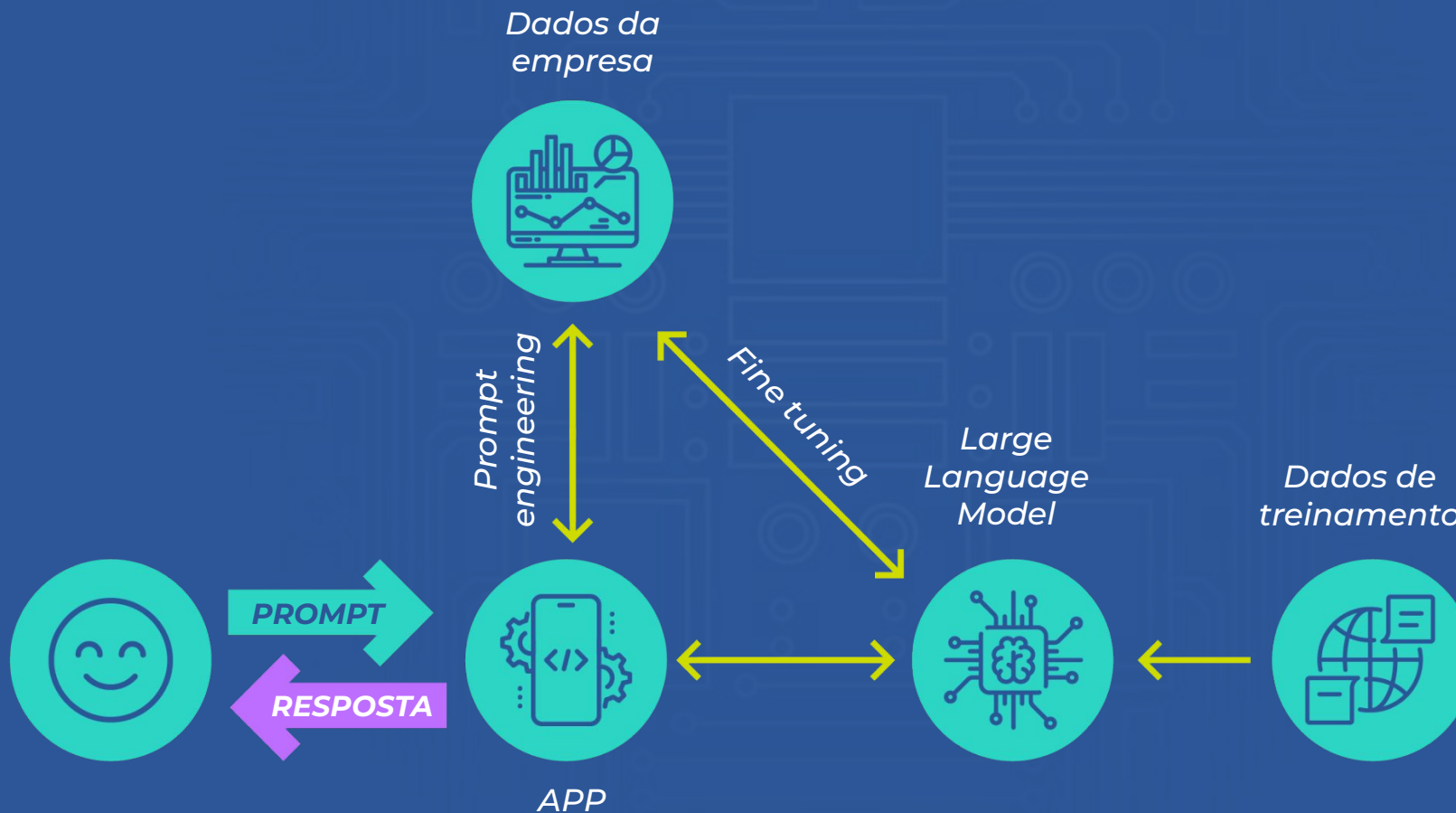


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IAG: Dados de Saída (Resposta)



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Open Source e Inteligência Artificial

Código
aberto

Dados
abertos

Modelos
abertos

Pesos
abertos

Exemplos:

- Ecosistema Python: Tensorflow, PyTorch, Keras, Scikit-learn
- LLMs fundacionais: EleutherAI, BLOOM, LAION
- Modelos: Dolly 2.0, StableML, Cerebras GPT, h2oGPT, RedPajama, OpenLLaMA, MosaicML MPT, NVIDIA Nemo, StarCoder, Falcon



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Hugging Face Search models, datasets, users... Models Datasets Spaces Docs Solutions Pricing Log In Sign Up

Spaces: HuggingFaceH4 / open_llm_leaderboard like 2.24k Running App Files Community 66

Open LLM Leaderboard

LLM Benchmarks Human & GPT-4 Evaluations

Search your model and press ENTER...

Model	Revision	Average	ARC (25-shot)	HellaSwag (10-shot)	MMLU (5-shot)	TruthfulQA (0-shot)
tiiuae/falcon-40b-instruct	main	63.2	61.6	84.4	54.1	52.5
timdettmers/guanaco-65b-merged	main	62.2	60.2	84.6	52.7	51.3
CalderaAI/30B-Lazarus	main	60.7	57.6	81.7	45.2	58.3
tiiuae/falcon-40b	main	60.4	61.9	85.3	52.7	41.7
timdettmers/guanaco-33b-merged	main	60	58.2	83.5	48.5	50
ausboss/llama-30b-superkot	main	59.8	58.5	82.9	44.3	53.6
huggyllama/llama-65b	main	58.3	57.8	84.2	48.8	42.3
pinkmanlove/llama-65b-hf	main	58.3	57.8	84.2	48.8	42.3
llama-65b	main	58.3	57.8	84.2	48.8	42.3
MetaIX/GPT4-X-Alpasta-30b	main	57.9	56.7	81.4	43.6	49.7
Aeala/VicUnlocked-alpaca-30b	main	57.6	55	80.8	44	50.4
digitous/Alpacino30b	main	57.4	57.1	82.6	46.1	43.8
Aeala/GPT4-x-AlpacaDente2-30b	main	57.2	56.1	79.8	44	49.1
TheBloke/Wizard-Vicuna-13B-Uncensored-HF	main	57	53.6	79.6	42.7	52
TheBloke/dromedary-65b-lora-HF	main	57	57.8	80.8	50.8	38.8
ausboss/Llama30B-SuperHOT	main	56.9	57.1	82.6	45.7	42.3

Open Source e Inteligência Artificial

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The screenshot shows a dark-themed article on the SemiAnalysis website. At the top, the SemiAnalysis logo is visible. The article title is "Google 'We Have No Moat, And Neither Does OpenAI'". Below the title is a subtitle: "Leaked Internal Google Document Claims Open Source AI Will Outcompete Google and OpenAI". The authors are listed as "DYLAN PATEL AND AFZAL AHMAD" with a date of "MAY 4, 2023 · PAID". There are 611 likes and 10 comments. A "Share" button and a menu icon are also present. A disclaimer states: "The text below is a very recent leaked document, which was shared by an anonymous individual on a public Discord server who has granted permission for its republication. It originates from a researcher within Google. We have verified its authenticity. The only modifications are formatting and removing links to internal web pages. The document is only the opinion of a Google employee, not the entire firm. We do not agree with what is written below, nor do other researchers we asked, but we will publish our opinions on this in a separate piece for subscribers. We simply are a vessel to share this document which raises some very interesting points." Below this is a call to action: "SemiAnalysis is an ad-free reader-supported publication. To receive new posts, consider becoming a subscriber." followed by an email input field and a "Subscribe" button. At the bottom, the article's main text begins with "We Have No Moat And neither does OpenAI We've done a lot of looking over our shoulders at OpenAI. Who will cross the next milestone? What will the next move be?"

Google "We Have No Moat, And Neither Does OpenAI"

Leaked Internal Google Document Claims Open Source AI Will Outcompete Google and OpenAI

DYLAN PATEL AND AFZAL AHMAD
MAY 4, 2023 · PAID

611 10 Share ...

The text below is a very recent leaked document, which was shared by an anonymous individual on a public Discord server who has granted permission for its republication. It originates from a researcher within Google. We have verified its authenticity. The only modifications are formatting and removing links to internal web pages. The document is only the opinion of a Google employee, not the entire firm. We do not agree with what is written below, nor do other researchers we asked, but we will publish our opinions on this in a separate piece for subscribers. We simply are a vessel to share this document which raises some very interesting points.

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We Have No Moat

And neither does OpenAI

We've done a lot of looking over our shoulders at OpenAI. Who will cross the next milestone? What will the next move be?

Open Source e Inteligência Artificial

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TECH POLICY

CEO behind ChatGPT warns Congress AI could cause 'harm to the world'

In his first congressional testimony, OpenAI CEO Sam Altman calls for extensive regulation, including a new government agency charged with licensing AI models

By [Cat Zakrzewski](#), [Cristiano Lima](#) and [Will Oremus](#)

Updated May 16, 2023 at 4:12 p.m. EDT | Published May 16, 2023 at 1:58 p.m. EDT



OpenAI CEO Sam Altman is sworn in to testify before the Senate Judiciary subcommittee on privacy, technology and the law Tuesday. (Jabin Botsford/The Washington Post)

Open Source e Inteligência Artificial

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BEGUN, THE LLAMA WARS HAVE —

Meta launches Llama 2, a source-available AI model that allows commercial applications [Updated]

A family of pretrained and fine-tuned language models in sizes from 7 to 70 billion parameters.

BENJ EDWARDS - 7/18/2023, 5:07 PM



Midjourney

Enlarge / An AI-generated image of a cybernetic llama.

Open Source e Inteligência Artificial

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Privacidade e proteção dos modelos e dados

Execução dos modelos de linguagem on premise;

PETs (Privacy Enhancing Technologies);

Uso de criptografia e anonimização dos dados;



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Privacidade e proteção dos modelos e dados

Armazenamento
seguro dos
dados;

Controle e
monitoramento
de acesso;

Auditorias.



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LEADERSHIP · CHATGPT

Apple, Goldman Sachs, and Samsung among growing list of companies banning employees from using ChatGPT at work

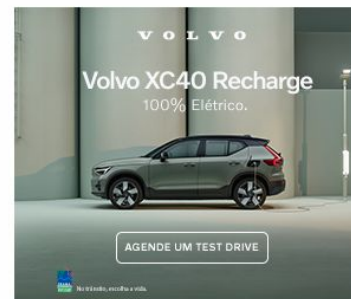
BY PAIGE MCGLAULIN

May 19, 2023 at 3:01 PM GMT-3



Companies are restricting employee use of ChatGPT. SOPA IMAGES / CONTRIBUTOR—GETTY IMAGES

The anvil is dropping on ChatGPT's presence in the workplace—for now.



Most Popular

SUCCESS

Paul Graham says remote work 'does work initially,' which is why it 'fooled' leaders who have since 'changed their...'



June 11, 2023

BY STEVE MOLLMAN

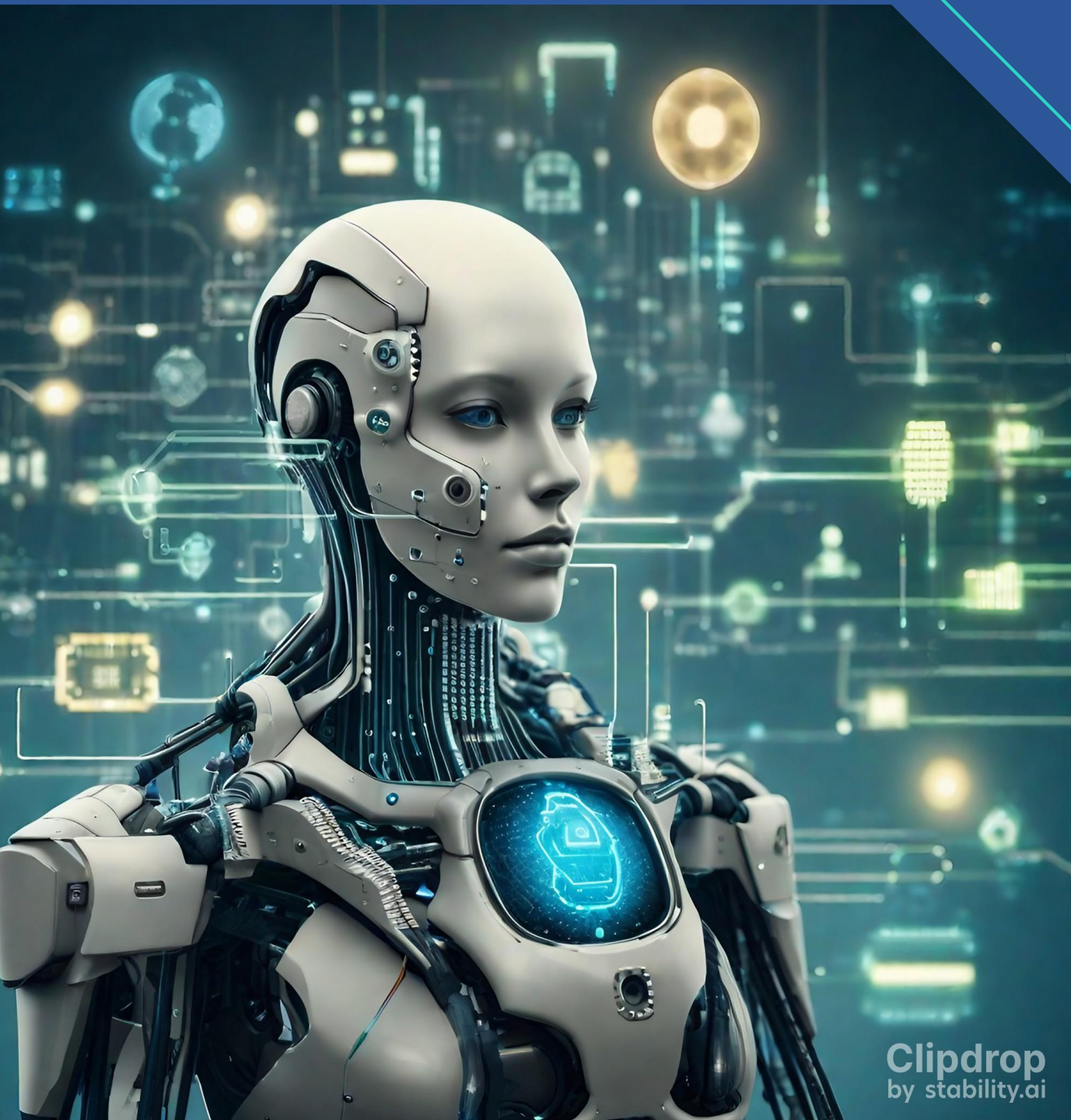
FINANCE



Privacidade e proteção dos modelos e dados

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Soberania dos modelos e dados

Transparência: modelo e dados são abertos

Independência: evita lock-ins

Segurança: evita modelo “black box” e vazamento de dados

Customização: controle sobre modelos e dados com melhores resultados



Soberania dos modelos e dados

Colaboração: co-participação de parceiros e comunidade

Inovação: rápida iteração em cima de modelos fundacionais

Diversidade: promove surgimento de novas técnicas e modelos



Soberania dos modelos e dados

Interoperabilidade: facilita integração com outras ferramentas

Custo: redução de custos em larga escala

Performance: redução de latência



CEO of Stability AI (\$4 Billion valuation):



Emad @EMostaque · May 23



Honestly am tired of those who ask why open models are good business/how will you make money.

Every government, financial institution, school, healthcare, regulated sector will run on open, auditable models they own.

Helping them do that is a trillion dollar market.

Conclusão

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Conclusão

Modelos proprietários

- Vazamento de dados
- Restrições, pouco customizável
- Modelo e dados obscuros (black box)
- Dependência (lock-in)
- Homogeneização

Modelos abertos

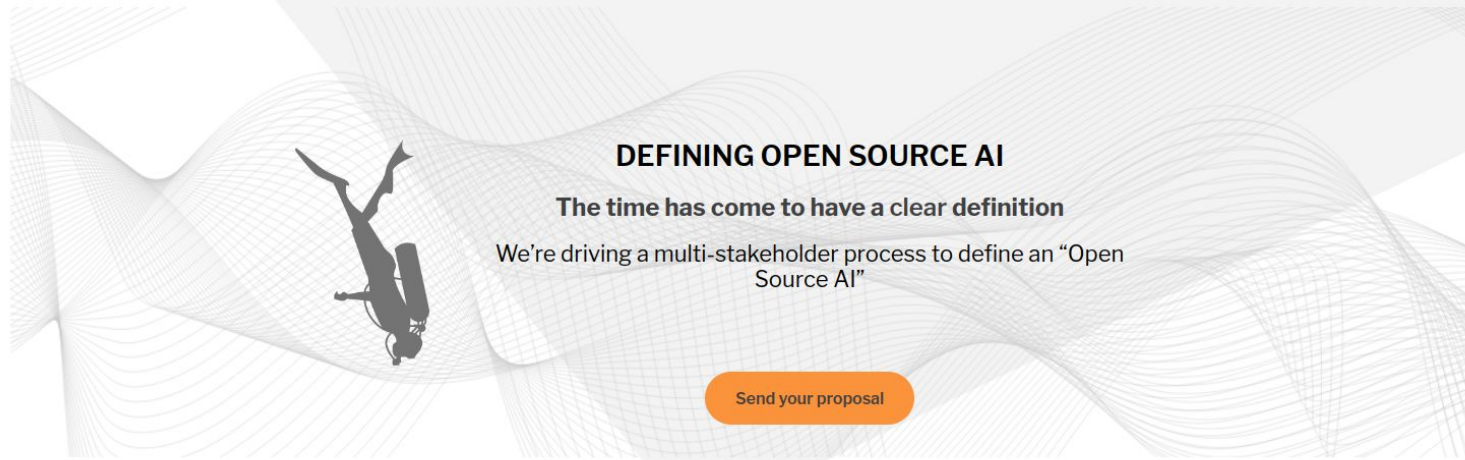
- Privacidade: dados on prem ou na nuvem com PETs
- Soberania: total controle sobre dados e modelos
- Customização e interoperabilidade
- Colaboração, inovação e diversidade



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Home / Deep Dive



DEFINING OPEN SOURCE AI

The time has come to have a clear definition

We're driving a multi-stakeholder process to define an "Open Source AI"

[Send your proposal](#)

An open process

This Deep Dive is a series of events, in person and online, gathering opinions and comments from individual developers, lawyers, researchers, non-profit organizations, companies and government officials developing and using AI systems.

An ambitious goal



OSI is bringing together global experts to establish a shared set of principles that can recreate the permissionless, pragmatic and simplified collaboration for AI practitioners, similarly to what the [Open Source Definition](#) has done.

Conclusão

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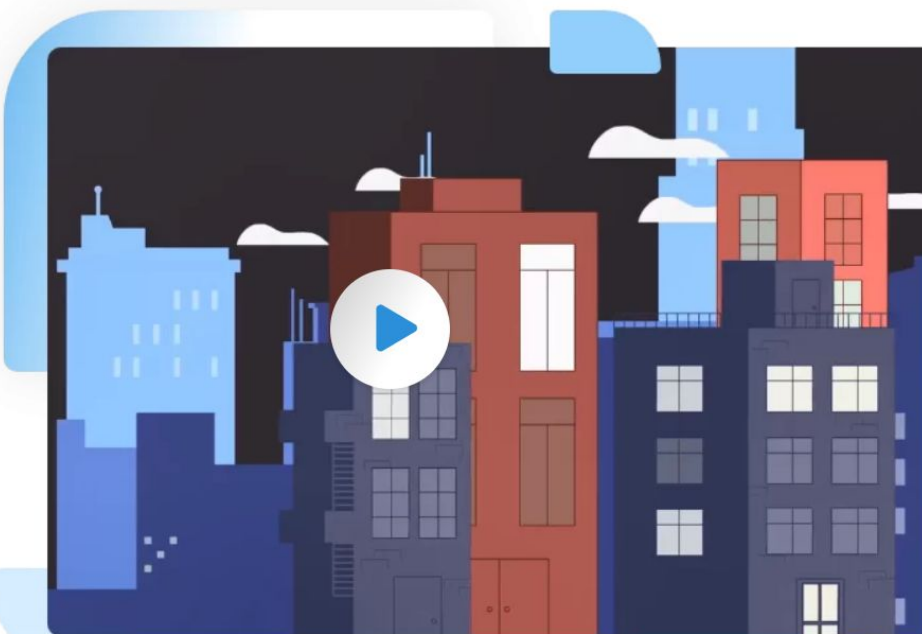


Privacy tools   [Sobre](#) [Soluções](#) [Governo](#) [Materiais](#) [Blog](#) [Contato](#) [Entrar](#) [Solicite demonstração](#)

Somos uma **PrivacyTech**, uma ferramenta de gerenciamento de privacidade

Esteja adequado para a LGPD com a mais completa
ferramenta em gestão de privacidade

[Solicite demonstração](#) [Nossos cursos](#)



Conclusão

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Obrigado, thank you, gracias!



Aline Deparis

comercial@privacytools.com.br



Nick Vidal

nick@opensource.org



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BRASIL

realização **GOUVÊA**
experience

