

Open Source AI

Accelerating AI Adoption

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What is Open Source?

Free to
Run
(for any purpose)

Free to **Study
& Modify**

Free to
Share

Free to
**Distribute
Modified
Versions**

OPEN SOURCE GIVES YOU 4 FREEDOMS

Find Open Source licenses
at opensource.org

Not Just Code! Open
Source is also about tools,
process, culture

Open Source Trends

Open Source is
Everywhere



**OPEN SOURCE IS THE
BUILDING BLOCKS OF
ALL SOFTWARE**

96% of the world's
software contains open
source code

77% of all code originates
from open source software

Open Source Trends

Open Source is
Everywhere



Open Source &
Open Research



OPEN SOURCE & OPEN RESEARCH

“In terms of specific practices, open research includes open access to publications, open research data, **open-source software/tools**, open workflows, citizen science, open educational resources, and alternative methods for research evaluation.”

Open Source Trends

Open Source is
Everywhere



Open Source for
Open Research



Open Source for
Economic Impact



OPEN SOURCE FOR ECONOMIC IMPACT

Open source software
contributes €65 - €95
billion to the EU's GDP

\$26.4 billion funding for
commercial open source
(COSS) startups in 2024

COSS startups average 7x
greater valuations at IPO
and 14x at M&A than
closed-source peers.

Open Source Trends

Open Source is
Everywhere



Open Source for
Open Research



Open Source for
Social Impact



Open Source for
Economic Impact



OPEN SOURCE FOR SOCIAL IMPACT

Open-source software, open data, open AI models, open standards, and open content that adhere to privacy and other applicable laws and best practices, do no harm by design, and help attain the Sustainable Development Goals (SDGs).

Why Open Source?



Frictionless
Re-use



Shared
Cost



Accelerated
Innovation



Shared
Risk



Economic &
Social Impact



Increased
Trust

Open Source Myths

Busting some myths...

1

Myth: Open Source is free of cost

Truth:

You don't pay for a license, but you often have to pay for support, customization, hosting.

That's how Commercial Open Source Companies make \$\$.



2

Myth: Open Source is less secure

Truth:

Security is not a factor about whether source code is open or not, it's about secure practices and governance.

Many orgs now agree open source is more secure (many eyes).



3

Myth: Open Source is all volunteers

Truth:

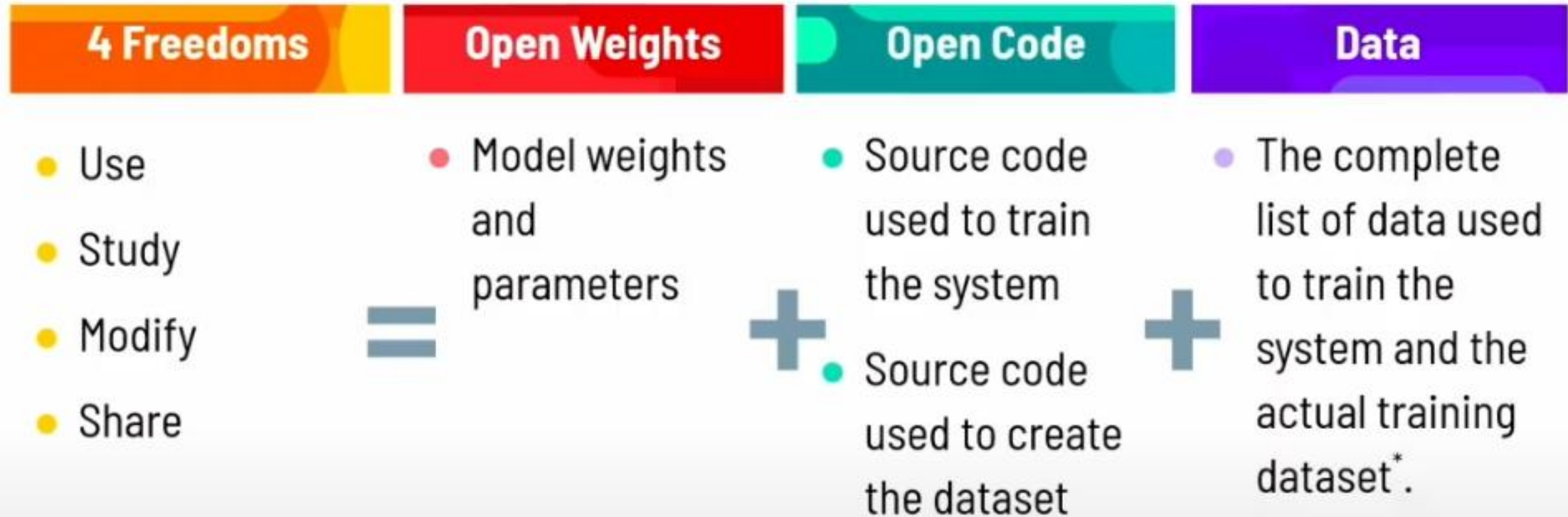
Most major open source projects are heavily supported by pro devs.

Organizations now focus on open source excellence.





Open Source AI Definition



*when legally possible.

All under OSD-compatible/OSI-approved terms.

An evolving story... November 2022

Open Source & AI



Business Insider

<https://www.businessinsider.com> › AI › Tech

Sam Altman Explains OpenAI's Shift to Closed AI Models

2 Nov 2024 — In December 2022, a month after ChatGPT came out, he tweeted, "OpenAI was started as open-source & non-profit. Neither are still true." OpenAI ...

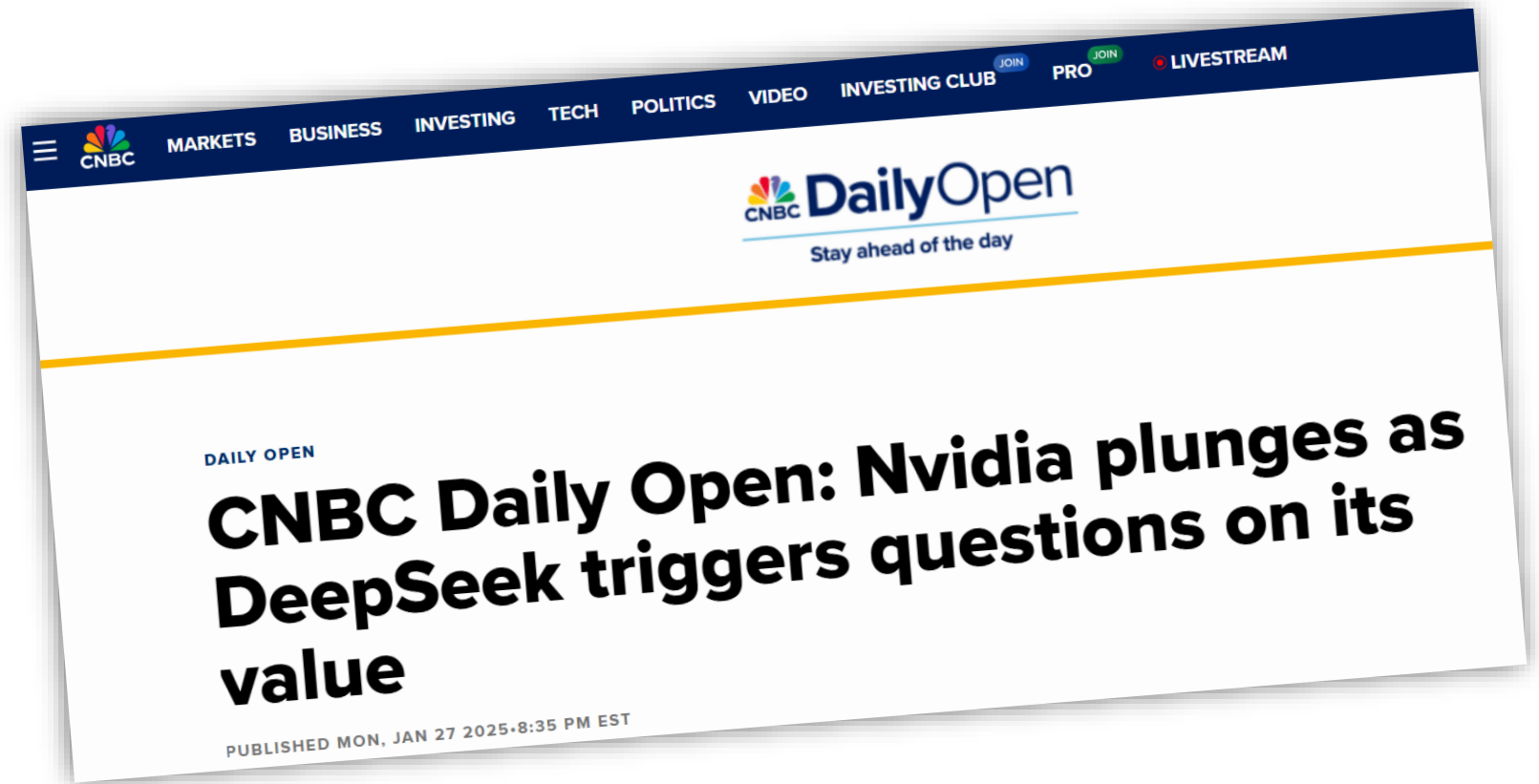
Open Source & AI

An evolving story... December 2024



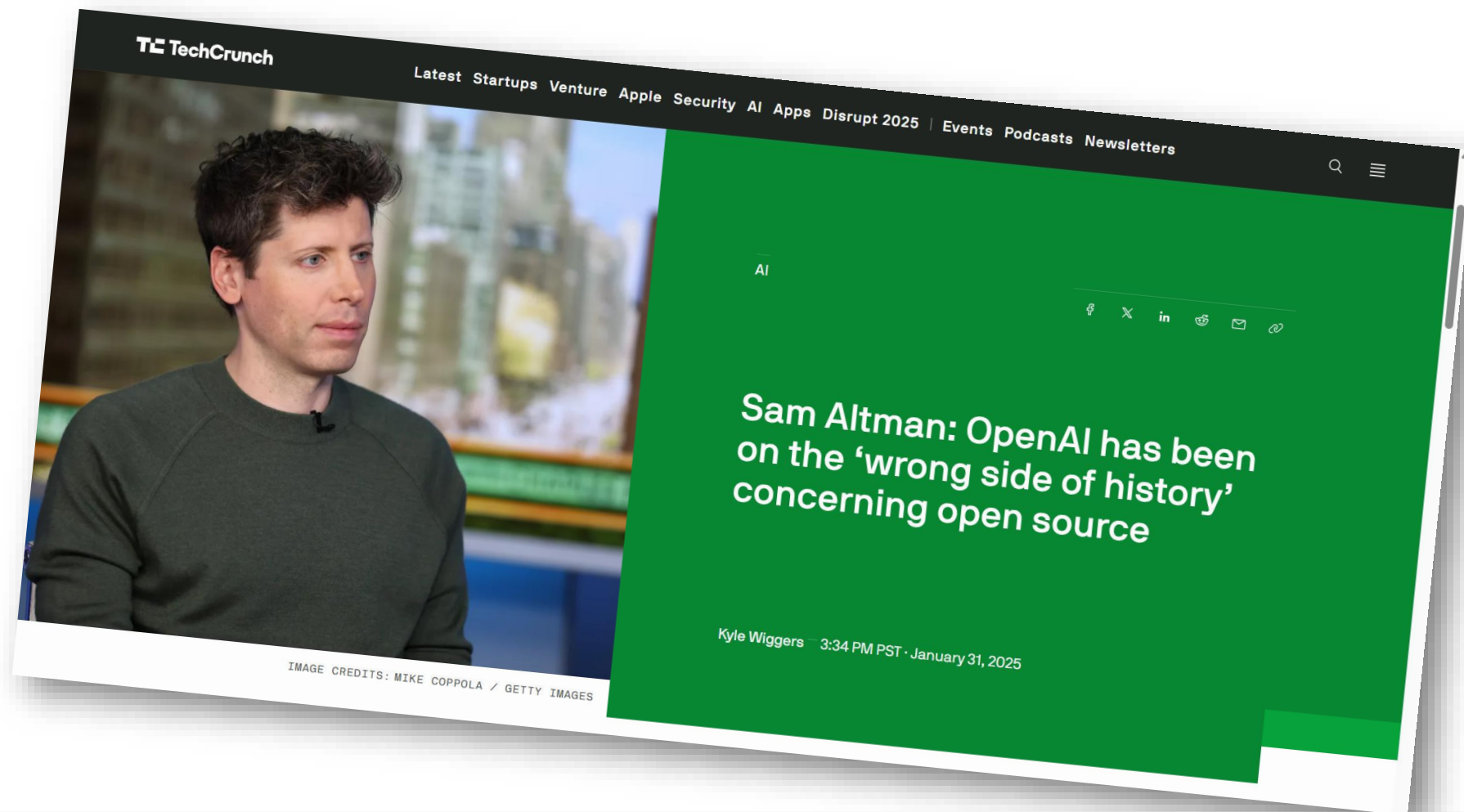
An evolving story... January 27th

Open
Source &
AI



Open Source & AI

An evolving story... January 31st



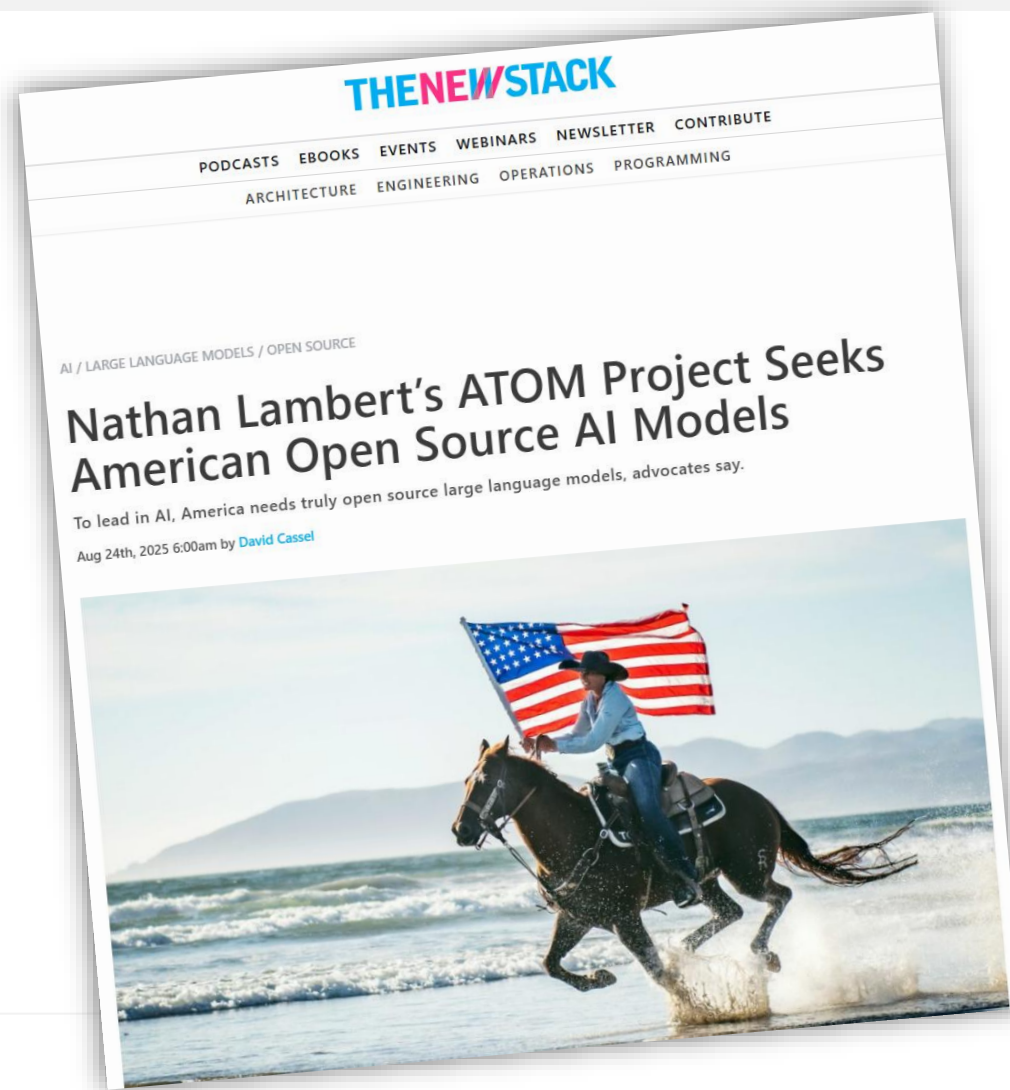
Open Source & AI

An evolving story... July 4th



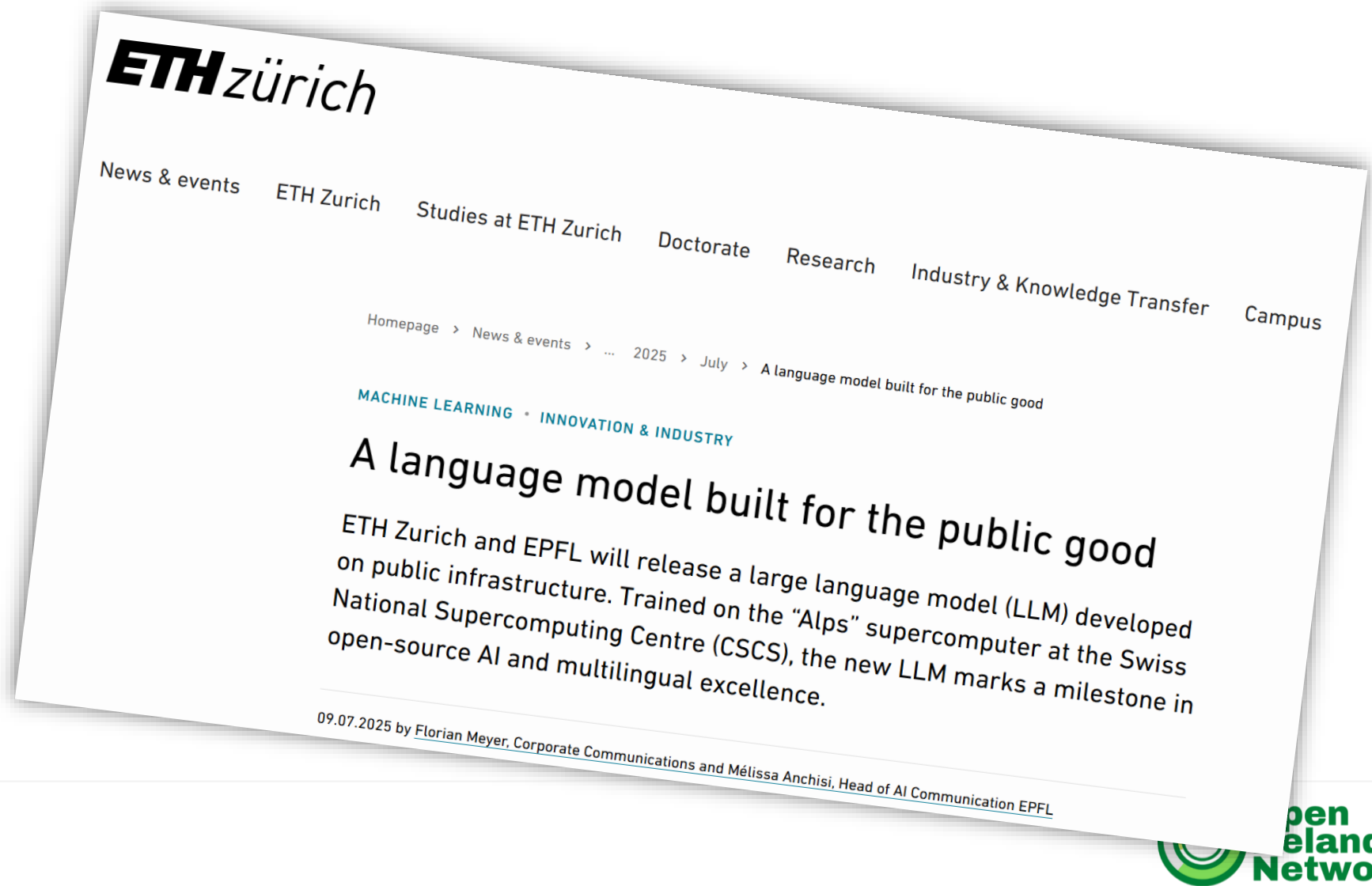
Open Source & AI

An evolving story... July 4th



Open Source & AI

An evolving story... July 9th



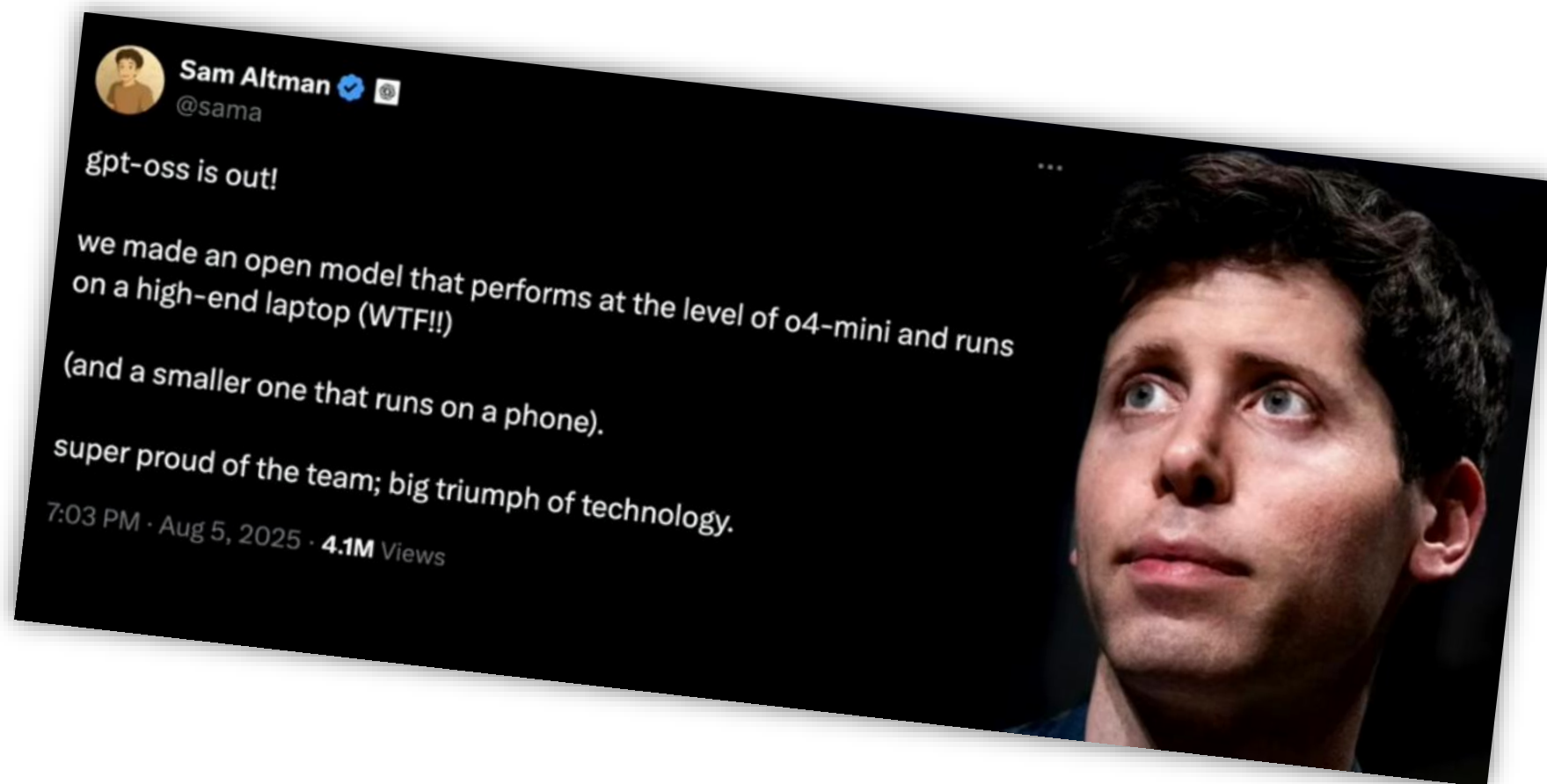
Open Source & AI

An evolving story... July 23rd



Open Source & AI

An evolving story... August 5th

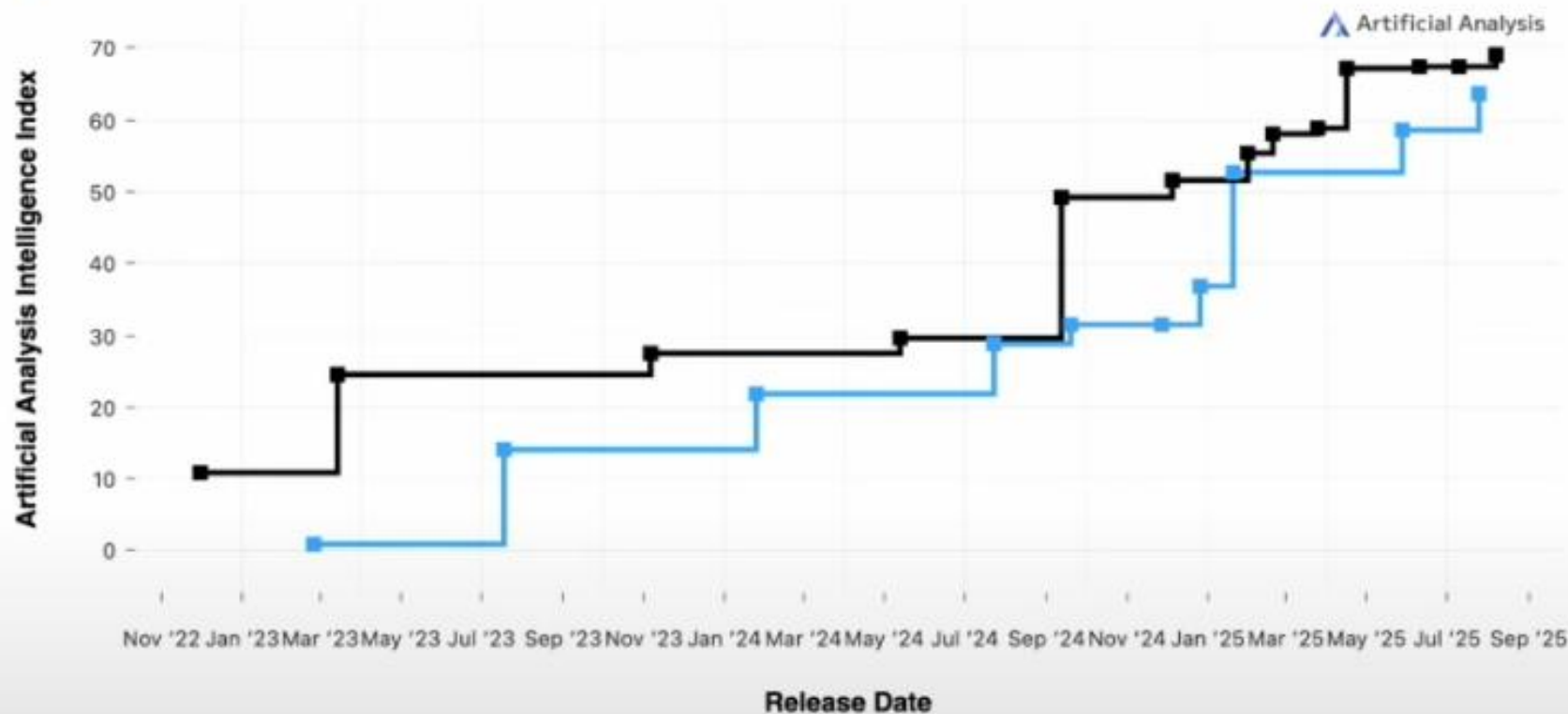


Open Source AI Has Largely Caught Up to Closed AI on Evals

Progress in Open Weights vs. Proprietary Intelligence

Artificial Analysis Intelligence Index v2.2 incorporates 8 evaluations: MMLU-Pro, GPQA Diamond, Humanity's Last Exam, LiveCodeBench, SciCode, AIME, IFBench, AA-LCR

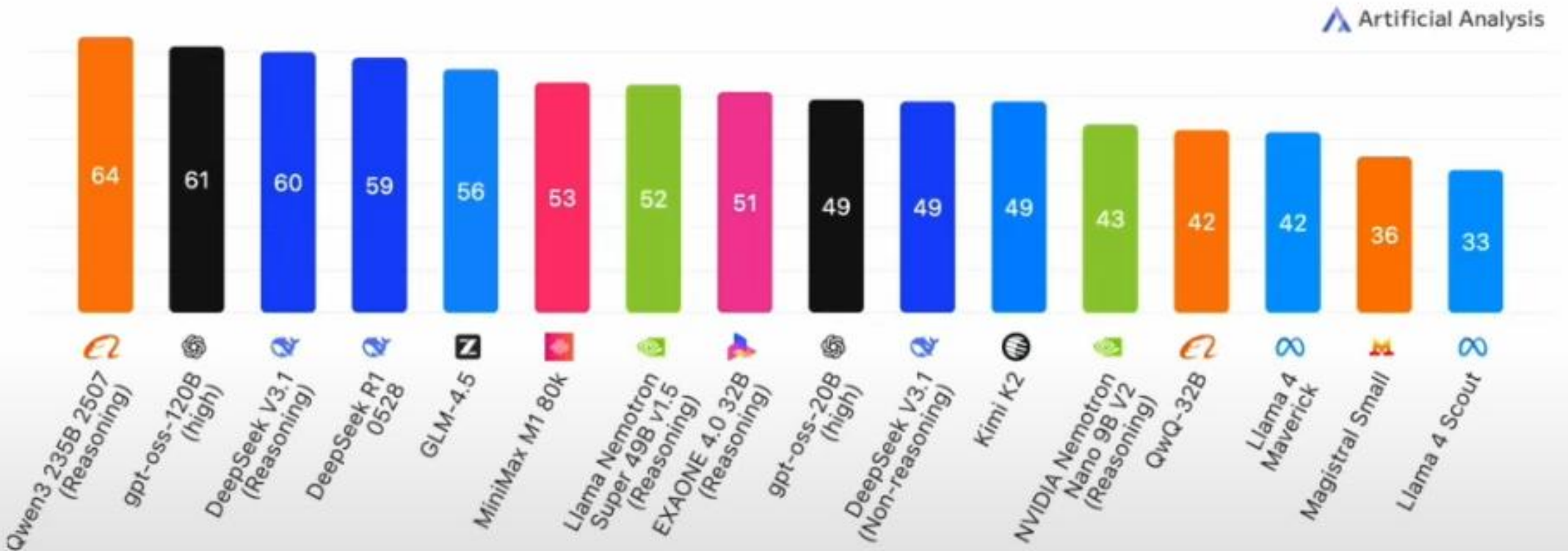
■ Open Weights ■ Proprietary



Most Open Models are from US and China with the exception of Mistral

Artificial Analysis Intelligence Index

Artificial Analysis Intelligence Index v2.2 incorporates 8 evaluations: MMLU-Pro, GPQA Diamond, Humanity's Last Exam, LiveCodeBench, SciCode, AIME, IFBench, AA-LCR

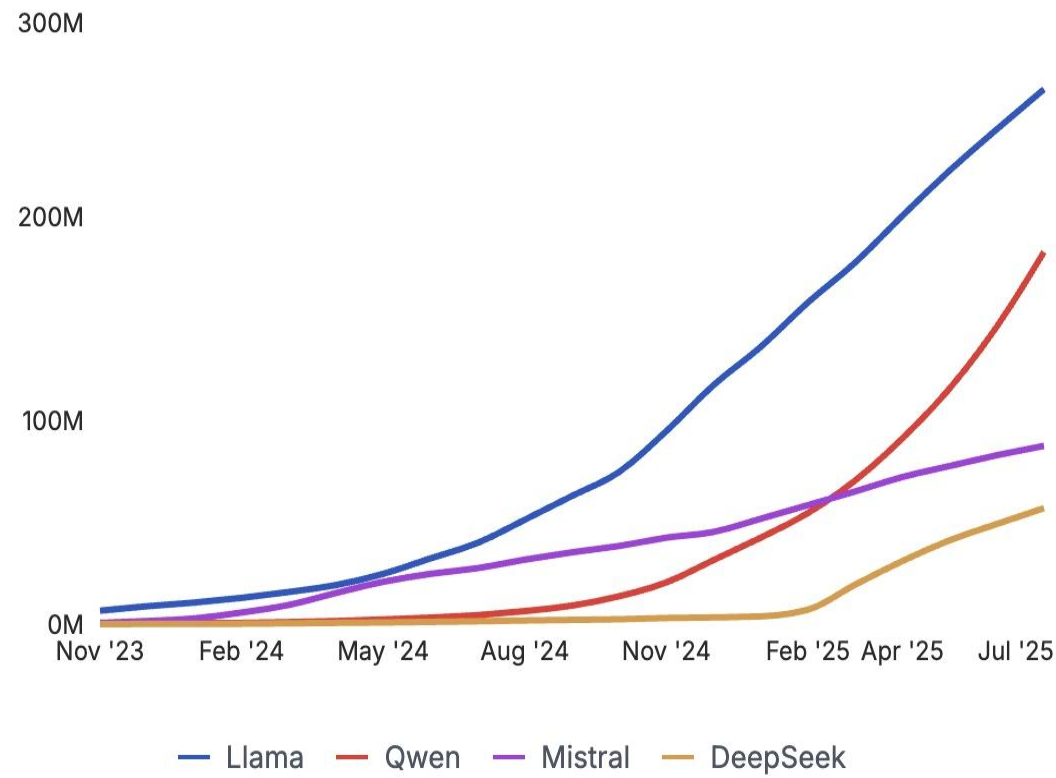


China's Model Momentum

Open models from China are set to overtake the US in the near future, as downloads of Qwen surge in usage across HuggingFace.

Catching the Llama

Cumulative Downloads, 2023- present

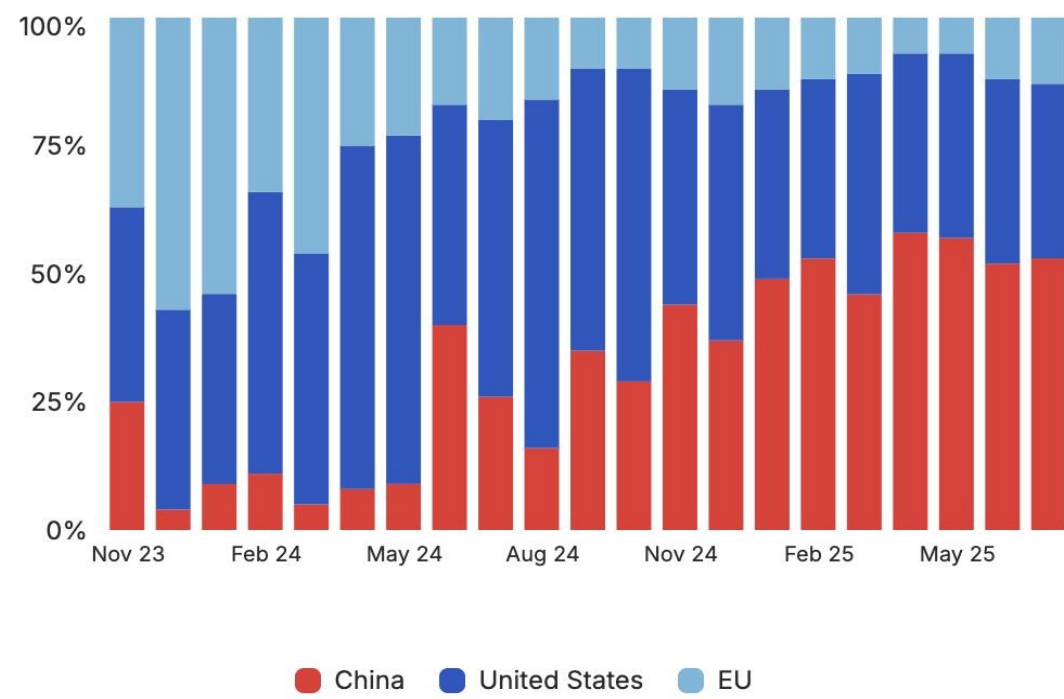


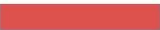
Model Adoption by Region

Percentage of new finetunes and derivatives released per month by region. Each finetune is logged based on the creator of its base model. Where the U.S. and the E.U. models once dominated, China has taken a clear lead.

Global Regional Model Adoption by Month

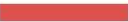
Nov 2023 - Jul 2025





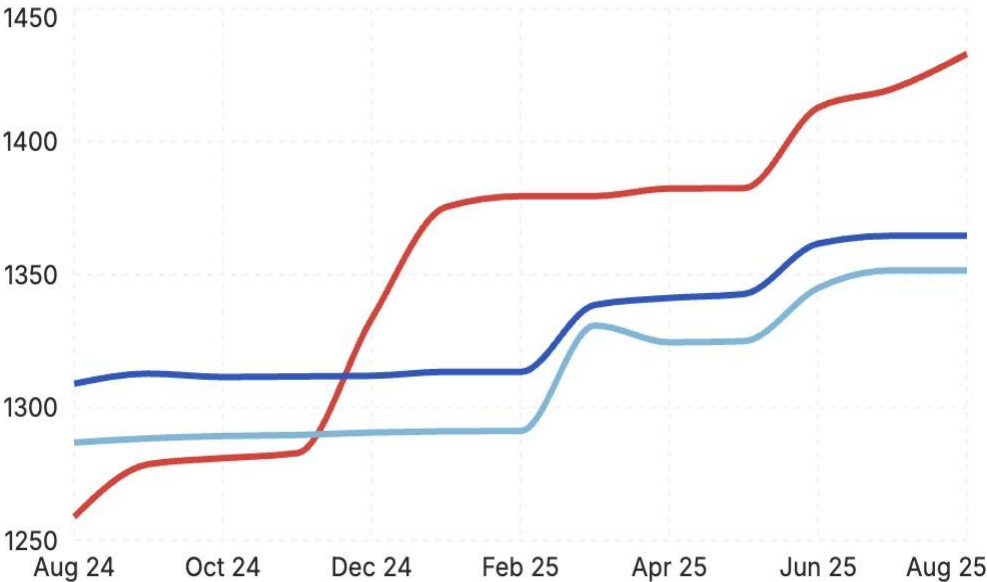
Community Preference of Open Models

In August of 2024, Chinese open models trailed both the U.S. and the rest of the world, but they quickly overcame this to take a strong lead.



Community Elo Rankings

Monthly performance rankings, Aug 2024 - Jul 2025



— US — China — Other



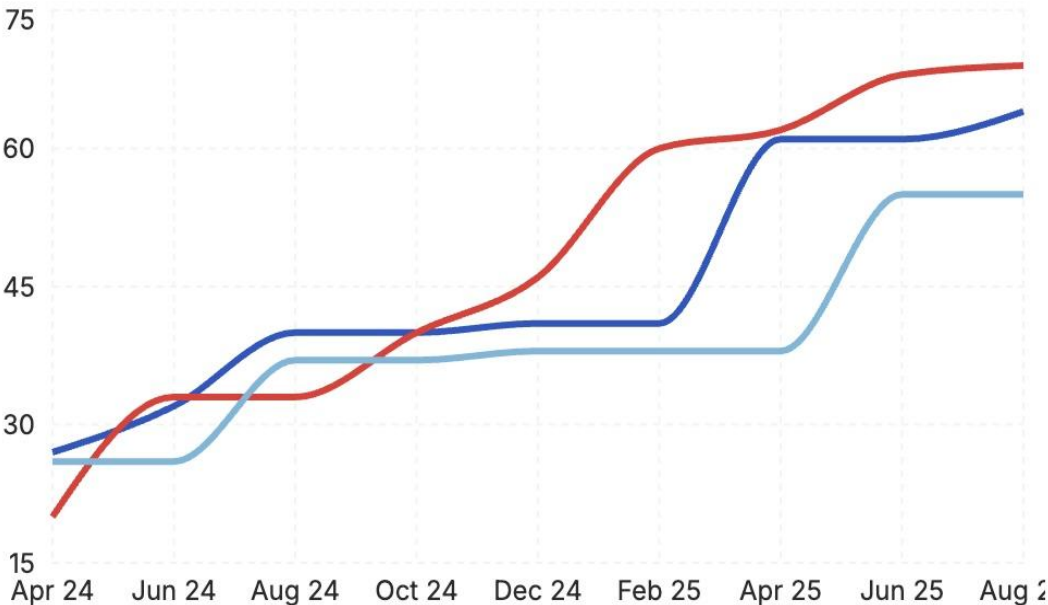
Best Open Models Over Time

Linear Trend Analysis showing the performance trajectory of open models by region across ArtificialAnalysis benchmarks.



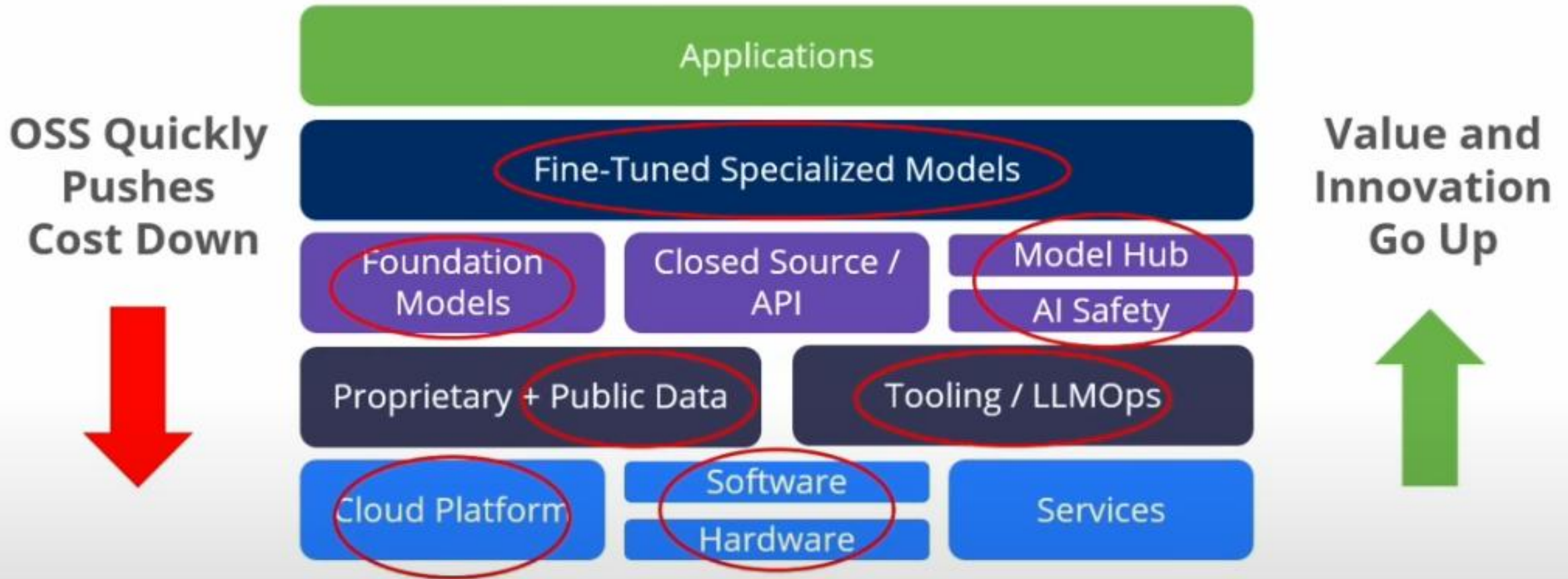
Performance Intelligence Rankings

ArtificialAnalysis Overall Intelligence, Apr 2024 - Aug 2025



— USA — China — EU

Open Source Pushes Value and Innovation to the “Top of the Stack”



Why Open Source AI?



Frictionless
Re-use



Shared
Cost



Accelerated
Innovation



Shared
Risk



Economic &
Social Impact



Increased
Trust

Ireland's Open Source Opportunity

Time to invest in open source...

1

Don't build from scratch!

Stand on the shoulders of giants...



2

Building AI skills includes open source skills...

... and that includes: tech (across all domains), legal, business



3

Global collaboration opportunities are all around us!

And open source is the best way to collaborate...



Thank you!

Please connect with me if you
would like to learn more



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