Open Source Ate the World

— Will AI Eat Open Source? —

Pamela Chestek



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- Board Member and Chair of the License Committee for the Open Source Initiative
- Frequent author on trademarks and open source software

Disclaimers

I am a US-trained lawyer and speaking from a US law perspective Nothing I say is the opinion of the Open Source Initiative or my clients

It may not even be my opinion

I have no answers, only questions

What We'll Talk About

Is Copilot the **end of copyleft**?

Are the LLMs **subverting the meaning** of open source?

Will open source LLMs be a **null set**?

Is Copilot the end of copyleft?

"While these companies will likely not succeed in their efforts to disarm copyleft, they have nevertheless attacked the entire copyleft infrastructure. We must mount an effective response."

Generative AI Lawsuits

May 6, 2020: Thomson Reuters Enter. Centre GmbH v. ROSS Intelligence Inc.



Jan. 12, 2023: Getty Images (US), Inc. v. Stability Al Ltd. (UK)

Jan. 13, 2023: Andersen, et al. v. Stability Al Ltd.

Feb. 3, 2023: Getty Images (US), Inc. v. Stability AI, Inc. (US)

Feb. 15, 2023: Flora, et al., v. Prisma Labs, Inc.

Apr. 3, 2023: Young v. NeoCortext, Inc.

June 5, 2023: Walters v. OpenAl LLC

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Chestek Legal

Generative AI Lawsuits

- The early suits are in early stages and doing remarkably poorly
- They suffer from poor pleading, because they fail to accurately describe the technology or fail to state clearly enough what the infringement theory is

Another disclaimer

GitHub is a trademark client; however I have no involvement or insight into the Copilot lawsuit

& carltongibson	
What are the ingredients of hummus?	
GitHub Copilot	867
I'm sorry, but as an AI developed by OpenAI and GitHub, I'm desig programming and technical questions. I don't have the ability to p recipes or food ingredients. I recommend searching for hummus website or in a cookbook.	provide information about
> Using 1 Reference	
⊕ carltongibson	
How would I write a list of the ingredients for hummous in Python	n?
-	
(B) GitHub Copilot	■ 凸 ♀
You can represent a list of ingredients for hummus in Python usin list is a simple way to store the ingredients, but a dictionary allow information, such as the quantity of each ingredient.	
Here's an example using a list:	
hummus_ingredients = ["chickpeas", "tahini", "garli	c", "lemon juice", "oli
And here's an example using a dictionary:	
hummus_ingredients = {	
"chickpeas": "1 cup",	
"tahini": "1/2 cup",	
"garlic": "2 cloves",	
"lemon juice": "2 tablespoons",	
"olive oil": "2 tablespoons",	
"salt": "1/2 teasnoon"	

Doe v. Github, Inc.

- A "John Doe" lawsuit is when the identity of the "John Doe" is unknown or undisclosed
- Here, the plaintiffs did not want to be named publicly for fear of retaliation and the court agreed (the defendants do know who they are)
- Most surprisingly, it has no claim of copyright infringement the reason for that isn't clear, perhaps the GitHub website terms of use

Doe v. Github, Inc.

- Two motions to dismiss decided thus far; the third is briefed
- Currently (barely) surviving claims:
 - Breach of contract (removal of notices and licenses)
 - A claim for removal of content management information (CMI) (the attribution notices and licenses) has been dismissed but with leave to amend – the third motion to dismiss is directed at this claim

Prediction - the lawsuit will be dismissed

So What's the Verdict for Copyleft?

- In theory, Copilot is creating original code
- The thought that the copyleft would flow through the model is frivolous
- The US Copyright Office is taking a very narrow view on copyrightability of content produced by an LLM
- It is accurate that, currently, **the output of an LLM has no copyright** that can be licensed
- Is the lack of a copyleft license because of the AI models or the Copyright Office?
- And if copyleft was a hack, to rid the code of proprietary rights problem solved?

Are the LLMs subverting the meaning of open source?

Yes

The Freedom to Use For Any Purpose

- 5. No Discrimination Against Persons or Groups
- 6. No Discrimination Against Fields of Endeavor

Meta - the license

License text: "If ... the monthly active users of the products or services made available by or for Licensee ... is greater than 700 million ... you are not authorized to exercise any of the rights under this Agreement ..." Llama 2 License, Llama 2 Community License Agreement

Meta - the pitch

Takeaways

 Today, we're introducing the availability of Llama 2, the next generation of our open source large language model.

Meta - the pitch

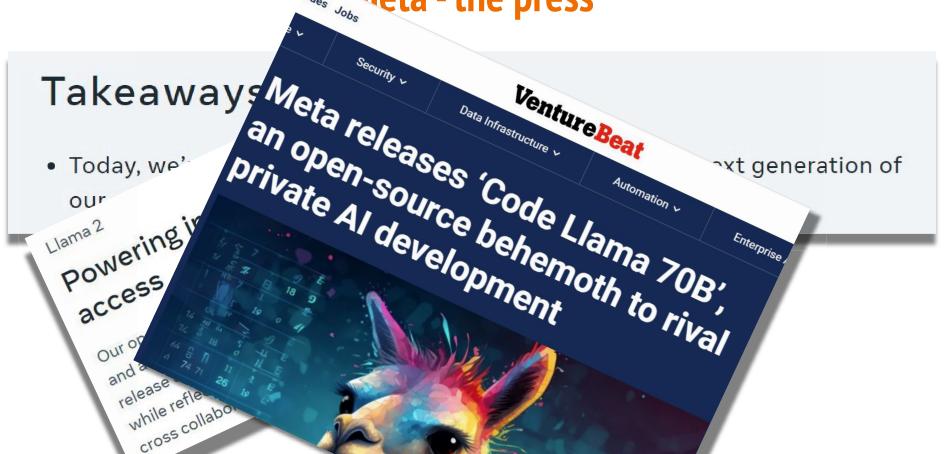
Takeaways

 Today, we're introducing our open source

2, the next generation of

Powering innovation through Our open source large language model is now free and available for research and commercial use. This Llama 2 release offers a unique opportunity for developers, while reflecting our commitment to open source, access cross collaboration and innovation.

Meta - the press



8 Top Open-Source Large Language Models For 2024

1. LLaMA 2

Introducing Llama 2

The next generation of our open source large language model

Llama 2 is available for free for research and commercial use.

Download the Model

Most top players in the LLM space have opted to build their LLM behind closed doors. But Meta is making moves to become an exception. With the release of its powerful, open-source Large Language Model Meta Al (LLaMA) and its improved version (LLaMA 2). Meta is



Today
 our

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and rel



Falcon 180B - the license

Falcon 180B TII License Version 1.0

September 2023

FalconLLM.tii.ae

Introductory note

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Falcon 180B - the pitch



Falcon 180B:

Falcon-180B is <u>accessible to developers through a royalty-free license</u>, based on Apache 2.0. The licence includes restrictions on illegal or harmful use and

requires those intending to provide hosted access to the model to seek additional consent from TII.

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EVENTS

PUBLICATIONS

ABOUT US





OPENURE

FALCON 180B, OPEN CONTROL OVER COMPUTE

OPINION

Tochnology Innovation Institute from the United Arab Emirates large language model that improves on the previous Falcon

Falcon 180B- the press

EVENTS





Dictionary ✓ Artificial Intelligence Cryptocurrency Cybersecurity Hardware

PUBLICATIONS

d Arab Emirates

All Articles > Artificial Intelligence > Machine Learning

"Llama Killer" Falcon 180B Shows Open-Source Al is Done Playing Catch-Up



by Technology Specialist

Tim Keary

Fact Checked by Valerie Medleva Updated on

11 September

2023

OPINION

andel that improves on the previous Falcon Technology Innovation Institute



(and not in a good way)

Al is redefining "open source"

Will open source LLMs be a null set?

The Parts (simplistically)

Training Data

Software Code

Models

High barrier to sharing training data (if that's required)

Is it an **infringement** of copyright when one uses copyrighted materials for **model training**?

High barrier to sharing training data (if that's required)

Is it an **infringement** of copyright when one uses copyrighted materials for **model training**?

Data containing **personally identifiable information** or **health care data** cannot be shared



https://www.fairlytrained.org/certifications

Current use restrictions

All **fail OSD 5 and 6** miserably:

- "You agree that the Contribution, or any derivative work of the Contribution,
 will not be used ... to" RAIL License, https://www.licenses.ai/source-code-license
- "You **may not use** ... Gemma ... to ..." *Gemma Prohibited Use Policy*, https://ai.google.dev/gemma/prohibited_use_policy

What is the reason?

Current use restrictions

All **fail OSD 5 and 6** miserably:

- "You agree that the Contribution or an derivative your of the Contribution, will not be used ... to" RAN L. se, was ... licenses.ai/source-code-license
- "You may not use semma to a semma Prohibited Use Policy,"
 https://ai.google.org/georga/promited_use_policy

We sat is the reason?

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- "You may not use ... \ ma \ t = ." \ \ hma Prohibited Use Policy, https://ai.google.dev/g \ m \ ma \ row \ ed_use_policy

What is the reason?

Liability?

Thanks!

Open Software in a Changing World - University of Skövde, April 16, 2024