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Open Forum for Artificial Intelligence (OFAI)

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CNI Fall 2024 Membership Meeting

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Open Forum for AI (OFAI)

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Carnegie Mellon University (CMU) is launching the Open Forum for AI (OFAI) to provide holistic, objective expert advice regarding AI, particularly as it relates to research, technical prototypes, policy recommendations, community engagement, and inclusion. The overarching vision is that AI should augment human capability rather than replace it; that AI development needs to be human centered. Leveraging CMU's AI expertise and capacity, OFAI will include partners that offer a range of complementary expertise necessary for collective action for AI strategy and associated policy development.

Founding Reason

OFAI's launch signals a powerful call for deeper technical understanding and more rigorous scrutiny in AI, including but also extending beyond open source software. OFAI will advocate in an objective manner for wider involvement in the AI ecosystem to shape policy-making and address issues such as AI safety, privacy, and equity, as underscored in memoranda like the White House AI Executive Order. There is growing consensus that an open AI ecosystem will mitigate risks while fostering innovation and inclusion, but little clarity about the characteristics of such an ecosystem. OFAI aims to address this gap in a comprehensive and inclusive manner.

Contact

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ENGIN in the News

- [CMU Launches New Initiative for Human-Centered AI](#) [library.cmu.edu]
- [Can Artificial Intelligence be Open Sourced?](#) [cacm.acm.org]
- [CMU OSOID Statement](#)

OFAI (Current) Partners



Georgia Tech Open Source Program Office



Open Source
Program Office



The University of Texas at Austin
Open Source Program Office



open source
initiative®



Atlantic Council

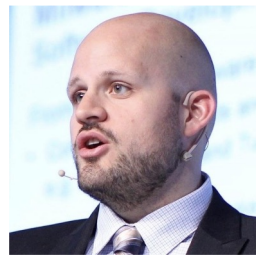


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OFAI Fellows



Open Forum for AI (OFAI) Leadership



Sayeed
Choudhury

Hoda
Heidari

Vince
Sha

Deb
Bryant

Trey
Herr

Rachel
Dzombak

Director

Research

Technical
Prototype

Community
Engagement

Policy

Talent for
Service

Library

Block
Center

Dietrich

OSI

Atlantic
Council

Heinz



The “Open” in OFAI

- Value of openness as a design principle – fostering innovation, participation, etc. for internet and web (e.g., TCP/IP, HTTP)
- Benefits of open source software – \$8.8 trillion in value, 3.5x reduction in production costs
- Questioning and testing assumptions – focus on evidence and research
- Produce and release outputs in more rapid, open manner (e.g., preprints, policy briefs)



Openness in AI Framework

- Technical framework, developed with community engagement, that rigorously defines openness and the ensuing or corresponding value
- Move from open source to open governance (e.g., transparency, reproducibility, accessibility)
- Need to consider specific context and use case with emphasis on the Ws of Why, What, Who, Whom, When, and Where

What's Open Source AI?

Following the same idea behind Open Source Software,
an Open Source AI is a system made available under terms that grant users the freedoms to:

[Use](#)[Study](#)[Modify](#)[Share](#)

**Use the system for any purpose and
without having to ask for permission.**

Precondition to exercise these freedoms is to have access to
the preferred form to make modifications to the system, and to the means to use it.

Preferred form to make modifications to machine-learning systems

The preferred form of making modifications to a machine-learning system must include all the elements below:

- **Data Information:** Sufficiently detailed information about the data used to train the system so that a skilled person can build a substantially equivalent system. Data Information shall be made available under OSI-approved terms.
 - In particular, this must include: (1) the complete description of all data used for training, including (if used) of unshareable data, disclosing the provenance of the data, its scope and characteristics, how the data was obtained and selected, the labeling procedures, and data processing and filtering methodologies; (2) a listing of all publicly available training data and where to obtain it; and (3) a listing of all training data obtainable from third parties and where to obtain it, including for fee.
- **Code:** The complete source code used to train and run the system. The Code shall represent the full specification of how the data was processed and filtered, and how the training was done. Code shall be made available

The growing focus on open source AI makes it all the more important that we establish a shared understanding of what open source AI is. A definition should outline what must be shared and under what terms or conditions. Without this clarity, we risk a fragmented approach, where companies label their products as “open source” even when they aren’t, where civil society doesn’t have access to the AI components they need for testing and accountability, and policymakers create regulations that fail to address the complexities of the issue.

The Open Source Initiative (OSI) has recently released a new draft [definition of open source AI](#), marking a critical juncture in the evolution of the internet. This moment comes after two years of conversations, debates, engagements, and late-night conversations across the technical and open source communities. It is critical not just for redefining what “open source” means in the context of AI; it’s about shaping the future of the technology and its impact on society.

Business | The Zuckerberg mankini

Meta is accused of “bullying” the open-source community

It hopes its models will set the standard for open-source artificial intelligence



OFAI Landscape Map

| | Research | Technical Prototypes | Community Engagement | Policy Recommendations | Talent for Service |
|---------------------------------|----------|----------------------|----------------------|------------------------|--------------------|
| Data | | | | | |
| Design & Architecture | | | | | |
| Code | | | | | |
| Compute | | | | | |
| Model Weights | | | | | |
| Human Feedback | | | | | |
| Intended vs Unintended Usage | | | | | |
| Expertise, Education & Training | | | | | |
| Oversight | | | | | |



Technical Prototype Demo

Resources

[OFAI](#) website

Can Artificial Intelligence be [open sourced](#)?

Open Source AI Definition ([OSAID](#))

CMU Faculty [statement of support](#) for OSAID

George Washington OSPO endorsement of OSAID

Georgia Tech endorsement of OSAID

[Mozilla](#) statement of support for OSAID

OFAI landscape map

Acknowledgements and Q&A

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