OPEN SOURCE AI DEFINITION

Online public townhall

Feb 9, 2024
Community agreements

- **One Mic, One Speaker** -- Please allow one person to speak at a time.
- **Take Space, Make Space** -- If you tend to talk more, we invite you to make space for others to share. If you tend not to share, we invite you to speak up.
- **Kindness** -- This work is hard, but we don’t have to be. Gentleness and curiosity help. Those who use insults or hate speech will need to leave the meeting.
- **Forward Motion** -- We advance by focusing on what is possible in the moment and doing it. Obstacles are marked for later discussion, not used to stop the process. If we hit a boulder, we note it on the map and keep walking. We'll come back and unearth it later on.
- **Solution-Seeking** -- This work is so complex that focusing on what won’t work will stop it. Suggesting new ideas, options, and proposals is vulnerable, but crucial. All of us are needed to make this work.
- **Anything else?**
The objective for 2024

Open Source AI Definition

version 1.0
Definition of AI system

Preamble

Why we need Open Source Artificial Intelligence (AI)

Open Source has demonstrated that massive benefits accrue to everyone when you remove the barriers to learning, using, sharing and improving software systems. These benefits are the result of using licenses that adhere to the Open Source Definition. The benefits can be divided into autonomy, transparency, and collaborative improvement.

Everyone needs these benefits in AI. We need essential freedoms to enable users to build and deploy AI systems that are reliable and transparent.

How we can get the benefits of Open Source AI

A preface like the one in the Open Source software that developers have unrestricted access to the "open source" to modify and improve the software.

For AI systems, the preferred form to make modifications to the code depends on the specific kind of AI.

Out of scope issues

The Open Source AI Definition doesn't say how to develop and deploy an AI system, but it is ethical or responsible, although it doesn't prevent it. What makes an AI system ethical or responsible is a separate discussion.

What is Open Source AI

To be Open Source, an AI system needs to make its components available under licenses that individually grant the freedoms for:

- Study how the system works and inspect its components.
- Use the system for any purpose and without having to ask for permission.
- Modify the system to change its recommendations, predictions or decisions to suit your needs.
- Share the system with or without modifications, for any purpose.

License checklist

Checklist to evaluate licenses

To Do:

Leave comments for this text
What is Open Source AI

To be Open Source, an AI system needs to be available under legal terms that grant the freedoms to:

- **Use** the system for any purpose and without having to ask for permission.
- **Study** how the system works and inspect its components.
- **Modify** the system to change its recommendations, predictions or decisions to adapt to your needs.
- **Share** the system with or without modifications, for any purpose.
What is the **preferred form to make modifications** to an AI system?
Getting the specifications

As defined by the OECD.

List of components

What elements are necessary to:
- use
- study
- modify
- share
an AI system?

Legal frameworks

For each artifact, evaluate which laws apply. Some will be under “Intellectual Property” regimes, some will be under other regimes.

Legal documents

We'll match the components and the identified legal frameworks with the terms of the legal documents already in use, where available.

Checklist

After repeating this exercise enough times, we'll be able to generalize the outcomes and write the specs to evaluate the freedoms granted.
Report from the working groups

Analyzing Llama2 and Pythia
Participants (Llama2 WG)

- ✔ Stefano Maffulli -- Open Source Initiative (convener)
- ✔ Mer Joyce -- Do Big Good (facilitator)
- ✔ Bastien Guerry -- DINUM, French public administration
- ✔ Ezequiel Lanza -- Intel
- ✔ Roman Shaposhnik -- Apache Software Foundation
- ✔ Davide Testuggine -- Meta
- ✔ Jonathan Torres -- Meta
- ✔ Stefano Zacchirolı -- Polytechnic Institute of Paris

✔ = attended

All members participating in a personal capacity.
Participants (Pythia wg)

- Stefano Maffulli -- Open Source Initiative (convener)
- Seo-Young Isabelle Hwang (Samsung)
- Cailean Osborne (Researcher, Linux Foundation)
- Stella Biderman (Eleuther AI)
- Justin Colannino (Microsoft)
- Aviya Skowron (Eleuther AI)

All members participating in a personal capacity.
Purpose

- **Process** -- OSI has been convening a global conversation to find the definition of open source AI for almost two years.
- **Track** -- The 2024 objective scope for Track 1: System Testing is to discover what components need to be available in each AI system for the whole system to be studied, used, modified, and shared. We plan to complete this track at the latest by May.
- **Working group report** -- objective is to talk through initial points of difference on what components of Llama2, Pythia would need to be open for the whole AI system to be studied, used, modified, and shared.
Framing

● **Document** – We’ll review the components table in the Llama 2 specs doc and decide which exist in that AI system, with a focus on resolving disagreement.

● **Expectations** – We’ll see how much of the table we get through. (Insights on tempo and pace will be among the learnings from this meeting.)

● **Anything else?** – Are there any other expectations or framings we should put in place before we begin working through the components table?

● **Deadline** – Feb 16 publish Llama2 and Pythia
Analysis of LLaMA2

<table>
<thead>
<tr>
<th>Code</th>
<th>All code used to parse and process data, including:</th>
<th>Required to Use?</th>
<th>Required to Study?</th>
<th>Required to Modify?</th>
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<td>Data preprocessing code</td>
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Notes:
- SZ: Small
- EL: Easy
- SM: Simple
- DT: Difficult
- BG: Beginner
- J: Java
- S: Small
- Z: Zero
## Analysis of LLaMA2

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Important questions on the forums

- The question of data
- Is the OECD definition too broad?
- Does the “Share” verb need clarification?
Next steps
Recruiting volunteers

- Review and validate the list of components
- Analyze other AI systems
  (BLOOM, OpenCV ...)
2024 timeline

**System testing work stream**
- Virtual System Review Meetings
  - Begin
  - Continue

**Stakeholder consultation work stream**
- Virtual System Review Meetings
  - END
- Feedback Informs Content of OSI In-Person Stakeholder Meeting

**Release schedule**
- Draft 0.0.5
- Draft 0.0.6
- Draft 0.0.7
- Draft 0.0.8
- RC1
- v. 1.0

**Timeline**
- **February**
  - Call For Volunteers + Activity Feedback and Revision
  - Bi-Weekly Virtual Public Townhalls
- **March**
  - Virtual System Review Meetings
  - Bi-Weekly Virtual Public Townhalls
- **April**
  - Virtual System Review Meetings
  - Bi-Weekly Virtual Public Townhalls
- **May**
  - Virtual System Review Meetings
  - Bi-Weekly Virtual Public Townhalls
- **June ...**
  - Feedback Informs Content of OSI In-Person Stakeholder Meeting
  - Monthly Virtual Meetings
- **... October**
  - Release version 1.0
Criteria for RC1 and v. 1.0

RC1
- Expected outcome of in-person meeting end May/early June!
- The draft is completed in all its parts
- The draft is supported by at least 2 representatives for each of the 6 stakeholder groups

version 1
- Expected outcome of in-person and online meetings through the summer/early autumn
- The draft is endorsed by at least 5 reps for each of the stakeholder groups
- Announced in late October
<table>
<thead>
<tr>
<th>System Creator</th>
<th>License Creator</th>
<th>Regulator</th>
<th>Licensee</th>
<th>End User</th>
<th>Subject</th>
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</thead>
<tbody>
<tr>
<td>Makes AI system and/or component that will be studied, used, modified, or shared through an open source license (e.g., ML researcher in academia or industry)</td>
<td>Writes or edits the open source license to be applied to the AI system or component; includes compliance (e.g., IP lawyer)</td>
<td>Writes or edits rules governing licenses and systems (e.g. government policy-maker)</td>
<td>Seeks to study, use modify, or share an open source AI system (e.g. AI engineer, health researcher, education researcher)</td>
<td>Consumes a system output, but does not seek to study, use, modify, or share the system (e.g., student using a chatbot to write a report, artist creating an image)</td>
<td>Affected upstream or downstream by a system output without interacting with it intentionally; includes advocates for this group (e.g. people with loan denied, or content creators)</td>
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</table>

- **Enough to start**
- **Enough to start**
- **Leads to US, EU, Singapore, no commitment yet**
- **Enough to start**
- **Which org is squarely in this space?**
- **ACLU, Algorithmic Justice League**
It doesn’t end with v. 1.0

We’ll need to define rules for maintenance and review of the Definition
OSI’s immediate next steps

- more publicity to the process
  - public discussion forum -
    https://discuss.opensource.org
  - bi-weekly townhalls
  - more opportunities to volunteer
- update project landing page
- reach out to more stakeholders
- raise funds for 2024 meetings
- setup the board for review and approval of v. 1.0
Join the conversation

- Public forum
- Join as OSI member
  - Free or full
  - SSO with other OSI websites
Draft v. 0.0.5 of the Open Source AI Definition
Open to public comments

https://opensource.org/deepdive/drafts
Closing
Debrief

● **Reflection** – How did that discussion go? Were we able to address areas of disagreement in a meaningful way? If so, how? If not, why not?

● **Adaptation** – How might we change the structure of this meeting? How can we improve our review method for other AI systems?

● **Next Steps** – How to continue to resolve disagreements? Another synchronous meeting? Asynchronous commenting or other method? How would you personally like to be involved?
Thank you

We realize this is difficult work and we appreciate your help and openness, both in analyzing this system and improving the definitional process.