OPEN SOURCE AI DEFINITION

Online public townhall

May 31, 2024

last updated: May 28, 2024 (MJ)
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?**
OSI’s objective for 2024
Open Source AI Definition
Open Source AI Definition
Where Are We Now?
Open Source AI Definition v.0.0.8

4 Freedoms

Legal Checklist

Working on review processes for determining if an AI system meets the definition requirements.
Open Source AI Definition

How Did We Get Here?

May 2024
We’re interested in reviewing about 10 AI systems self-described as open as part of this definition validation phase. Those marked (*) have were reviewed in previous phases.

1. Arctic
   1. Jesús M. Gonzalez-Barahona
      Universidad Rey Juan Carlos

2. BLOOM*
   1. Danish Contractor
      BLOOM Model Gov. Work Group
   2. Jaan Li
      University of Tartu, One Fact Foundation

3. Falcon
   1. Casey Valk
      Nutanix
   2. Jean-Pierre Lorre
      LINAGORA, OpenLLM-France

4. Grok
   1. Victor Lu
      independent database consultant
   2. Karsten Wade
      Open Community Architects

5. Llama 2*
   1. Davide Testuggine
      Meta
   2. Jonathan Torres
      Meta
   3. Stefano Zacchiroli
      Polytechnic Institute of Paris
   4. Victor Lu
      independent database consultant

6. Mistral
   1. Mark Collier
      OpenInfra Foundation
   2. Jean-Pierre Lorre
      LINAGORA, OpenLLM-France
   3. Cailean Osborne
      University of Oxford, Linux Foundation

7. OLMO
   1. Amanda Casari
      Google
   2. Abdoulaye Diack
      Google

8. OpenCV*
   1. Rasim Sen
      Oasis Software Technology Ltd.

9. Phi-2
   1. Seo-Young Isabelle
      Hwang Samsung

10. Pythia*
    1. Seo-Young Isabelle
       Hwang Samsung
    2. Stella Biderman
       EleutherAI
    3. Hailey Schoelkopf
       EleutherAI
    4. Aviya Skowron
       EleutherAI

11. T5
    1. Jaan Li
       University of Tartu, One Fact Foundation
## Open Source AI Definition

**Validation phase**

v.0.0.8

### OSI: AI Systems Review Workgroups

<table>
<thead>
<tr>
<th>Component</th>
<th>Legal Framework</th>
<th>Legal Document</th>
<th>Arctic Document Analysis</th>
<th>Freedom</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Model Openness Framework</td>
<td>For each component (source: <a href="https://open-source-ai.org/openness-framework">OSIAI v.0.0.8</a>)</td>
<td>Paste link to each component’s legal document below</td>
<td>Use for any purpose and without having to ask for permission Study how the system works and inspect its components Modification for any purpose, including to change its output Share with or for any other party</td>
</tr>
<tr>
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</tbody>
</table>

### Optional

- **Data Information** All data sets, including:
  - Training data sets
  - Testing data sets
  - Validation data sets
  - Benchmarking data sets
  - Data card
  - Evaluation data
  - Evaluation results
  - Other data documentation

### Code

- Code used to perform inference for benchmark tests
- Evaluation code
- Model
  - All model elements, including:
  - Model card
  - Sample model outputs

### Available under OSI-compliant license

- [OSI-approved license](https://github.com/Snowflake-Labs/snowflake)
- [OSI-approved license](https://huggingface.co/Snowflake/snowflake-base)
Open Source AI Definition Validation phase

It was hard for volunteer reviewers to find required documents to do the review.
This meant a lot of the review analysis was left incomplete
Open Source AI Definition

What’s Next?

June - October 2024

- Complete validation phase (June 10)
- Resolve comments, release v. 0.0.9 after validation
- Cut the release candidate with sufficient endorsement
Complete the Validation Phase

1. Reach out to **AI system creators** to fill in the blanks on their own systems by pointing us to correct documentation.

2. Invite **volunteers** to also help us fill in these blanks (forum post forthcoming).

3. We’re also currently engaging in email and phone debriefs with **reviewers** to better understand the blockers they faced.

Thanks, LLM360 team!
Seek Public Feedback on Initial Results

Initial Report on Definition Validation

Context
We’re aiming to use the Open Source AI Definition (OSAID) to review approximately ten AI systems before releasing RC1 at the end of June.

To this end, we convened four workgroups at the beginning of this year to review an initial group of AI systems self-described as open: BLOOM, Pythia, Llama 2, and OpenCV. These workgroups were composed of system creators and unaffiliated volunteers and results were announced in early April.

Reviewed Systems
To continue towards our ten-system review goal, in early May we posted a call for volunteers on this forum. The ask was to help us validate additional AI systems using v.0.0.8 of the OSAID.

That call for volunteers resulted in the following system list and volunteer reviewers. (Previously reviewed systems* are included to give a complete list of AI systems we are analyzing.) Reviewers completed their analysis on this public spreadsheet.

1. Arctic
   1. Jesús M. Gonzalez-Barahona – Universidad Rey Juan Carlos

Please comment on the initial report of our validation process.
We’re exploring replacing the spreadsheet with an Evaluation Card like this prototype.

**Code:**

Defined as: The **source code** used to **train** and **run** the system.

For example, if used, this would include:

- code used for pre-processing data,
- code used for training, validation and testing,
- supporting libraries like tokenizers and hyperparameters search code,
- inference code,
- model architecture.

**Links to Code Documents**

- [https://huggingface.co/tiiuae/falcon-7b#software](https://huggingface.co/tiiuae/falcon-7b#software)
- [https://huggingface.co/blog/falcon#inference](https://huggingface.co/blog/falcon#inference)
- "[https://huggingface.co/tiiuae/falcon-7b/tree/main](https://huggingface.co/tiiuae/falcon-7b/tree/main)
- [https://huggingface.co/models?other=custom_code (custom code noted)"

**Evaluator’s opinion**

- Does it include all of the code required (list above)?
  - Yes/No
- Are all available under an OSD-approved license?
  - Yes/No
## 2024 Timeline

<table>
<thead>
<tr>
<th>February</th>
<th>March</th>
<th>April</th>
<th>May</th>
<th>June ...</th>
<th>... October</th>
</tr>
</thead>
<tbody>
<tr>
<td>Call For Volunteers + Activity Feedback and Revision</td>
<td>Virtual System Review Meetings Begin</td>
<td>Virtual System Review Meetings Continue</td>
<td>Virtual System Review Meetings END</td>
<td>Feedback Informs Content of OSI In-Person Stakeholder Meeting</td>
<td>Monthly Virtual Meetings</td>
</tr>
</tbody>
</table>

**System testing work stream**
- Stakeholder consultation work stream

**Release schedule**

- **Bi-Weekly Virtual Public Townhalls**
- **Draft 0.0.5**
- **Draft 0.0.6**
- **Draft 0.0.7 and 8**
- **Draft 0.0.9**
- **RC1**

**Stable Version**

- **Virtual System Review Meetings Begin**
- **Virtual System Review Meetings Continue**
- **Virtual System Review Meetings END**
- **Townhalls + PyCon Workshop** (~ May 17th, Pittsburgh)
- **Townhall + Virtual Launch Event (date TBD)**
<table>
<thead>
<tr>
<th>Region</th>
<th>Country</th>
<th>City</th>
<th>Conference</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>North America</td>
<td>United States</td>
<td>Pittsburgh</td>
<td>✓ PyCon US</td>
<td>May 17</td>
</tr>
<tr>
<td>Europe</td>
<td>France</td>
<td>Paris</td>
<td>OW2</td>
<td>June 11-12</td>
</tr>
<tr>
<td>Africa</td>
<td>Virtual</td>
<td>Virtual</td>
<td>Sustain Africa</td>
<td>June</td>
</tr>
<tr>
<td>North America</td>
<td>United States</td>
<td>New York</td>
<td>OSPOs for Good</td>
<td>July 9 - 11</td>
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<tr>
<td>Asia Pacific</td>
<td>China</td>
<td>Hong Kong</td>
<td>AI_dev</td>
<td>August 23</td>
</tr>
<tr>
<td>Latin America</td>
<td>Argentina</td>
<td>Buenos Aires</td>
<td>Nerdearlal</td>
<td>September</td>
</tr>
<tr>
<td>Europe</td>
<td>France</td>
<td>Paris</td>
<td>(data governance)</td>
<td>October</td>
</tr>
<tr>
<td>North America</td>
<td>United States</td>
<td>Raleigh</td>
<td>All Things Open</td>
<td>Oct 27 - 29</td>
</tr>
</tbody>
</table>
The renewed discussion on data

1. The **AWS Open Source** team posted a range of **concerns** with v 0.0.8, foremost on data.

2. Linux Foundation team recommended **adding Data card** to the required components. Also they argued that **Data preprocessing code** is unlikely to be shared if the dataset is not shared, too.
Other relevant posts

1. The **LLM360** team voluntarily ran their system through the v.0.0.8 [review](#) process.

2. Stefano [posted](#) on whether and how [OSI](#) should certify Open Source AI.
Participation Options

- **Public forum**: discuss.opensource.org
- **Become an OSI member**
  - Free or full
  - SSO with other OSI websites
- **Biweekly virtual townhalls**... like this one!
- **Volunteer** for to fill in the blanks on definition validation (email or DM Mer or Stefano)
Thank you

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