Meeting of the LF AI & Data Technical Advisory Council (TAC)

March 23, 2023



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Recording of Calls

Reminder:

TAC calls are recorded and available for viewing on the TAC Wiki



Reminder: LF AI & Data Useful Links

Web site: <u>Ifaidata.foundation</u>

Wiki: wiki.lfaidata.foundation

> GitHub: <u>github.com/lfaidata</u>

> Landscape: https://landscape.lfaidata.foundation or

https://l.lfaidata.foundation

Mail Lists: https://lists.lfaidata.foundation

Slack: https://slack.lfaidata.foundation

Youtube: https://www.youtube.com/channel/UCfasaeqXJBCAJMNO9HcHfbA

> LF AI Logos: https://github.com/lfaidata/artwork/tree/master/lfaidata

- > LF AI Presentation Template: https://drive.google.com/file/d/1eiDNJvXCqSZHT4Zk czASIz2GTBRZk2/view?usp=sharing
- Events Page on LF AI Website: https://lfaidata.foundation/events/
- > Events Calendar on LF AI Wiki (subscribe available): https://wiki.lfaidata.foundation/pages/viewpage.action?pageId=12091544
- Event Wiki Pages:

https://wiki.lfaidata.foundation/display/DL/LF+AI+Data+Foundation+Events

JLFAI & DATA

Agenda

- Roll Call (2 mins)
- Approval of Minutes from previous meeting (2 mins)
- Sparklyr Project Update (Edgar Ruiz, 20 minutes)
- Foundation Update (Ibrahim Haddad 20 minutes)
- Open Discussion



TAC Voting Members - Please note

Please ensure that you do the following to facilitate smooth procedural quorum and voting processes:

- Change your Zoom display name to include your First/Last Name, Company/Project Represented
 - example: Nancy Rausch, SAS
- State your First/Last Name and Company/Project when submitting a motion
 - example: First motion, Nancy Rausch/SAS



TAC Voting Members - Please note

- TAC members must attend consistently to maintain their voting status
- After 2 absences voting members will lose voting privileges
- Voting privileges will only be reinstated after attending2 meetings in a row



TAC Voting Members

Note: we still need a few designated backups specified on wiki

Member Representatives (8 out of 16 required for quorum)

Member Company or Graduated Project	Membership Level or Project Level	Voting Eligibility	Country	TAC Representative	Designated TAC Representative Alternates
4paradigm	Premier	Voting Member	China	Zhongyi Tan	
Baidu	Premier	Voting Member	China	Jun Zhang	Daxiang Dong, Yanjun Ma
Ericsson	Premier	Voting Member	Sweden	Rani Yadav-Ranjan	
Huawei	Premier	Voting Member	China	Howard (Huang Zhipeng)	Charlotte (Xiaoman Hu) , Leon (Hui Wang)
Nokia	Premier	Voting Member	Finland	@ Michael Rooke	@ Jonne Soininen
OPPO	Premier	Voting Member	China	Jimmy (Hongmin Xu)	
SAS	Premier	Voting Member	USA	*Nancy Rausch	JP Trawinski
ZTE	Premier	Voting Member	China	Wei Meng	Liya Yuan
Adversarial Robustness Toolbox Project	Graduated Technical Project	Voting Member	USA	Beat Buesser	Kevin Eykholt
Angel Project	Graduated Technical Project	Voting Member	China	Jun Yao	
Egeria Project	Graduated Technical Project	Voting Member	UK	Mandy Chessell	Nigel Jones, David Radley, Maryna Strelchuk, Ljupcho Palashevski, Chris Grote
Flyte Project	Graduated Technical Project	Voting Member	USA	Ketan Umare	
Horovod Project	Graduated Technical Project	Voting Member	USA	Travis Addair	
Milvus Project	Graduated Technical Project	Voting Member	China	Xiaofan Luan	Jun Gu
ONNX Project	Graduated Technical Project	Voting Member	USA	Alexandre Eichenberger	Prasanth Pulavarthi, Jim Spohrer
Pyro Project	Graduated Technical Project	Voting Member	USA	Fritz Obermeyer	



Minutes approval



Approval of March 9, 2023 Minutes

Draft minutes from the March 9 TAC call were previously distributed to the TAC members via the mailing list

Proposed Resolution:

That the minutes of the March 9 meeting of the Technical Advisory Council of the LF AI & Data Foundation are hereby approved.



Annual Review for Sparklyr

March 23, 2023

Edgar Ruiz



LF AI & Data Update

Ibrahim Haddad, PhD

March 23, 2023





Agenda

Ecosystem overview

LF AI & Data recap

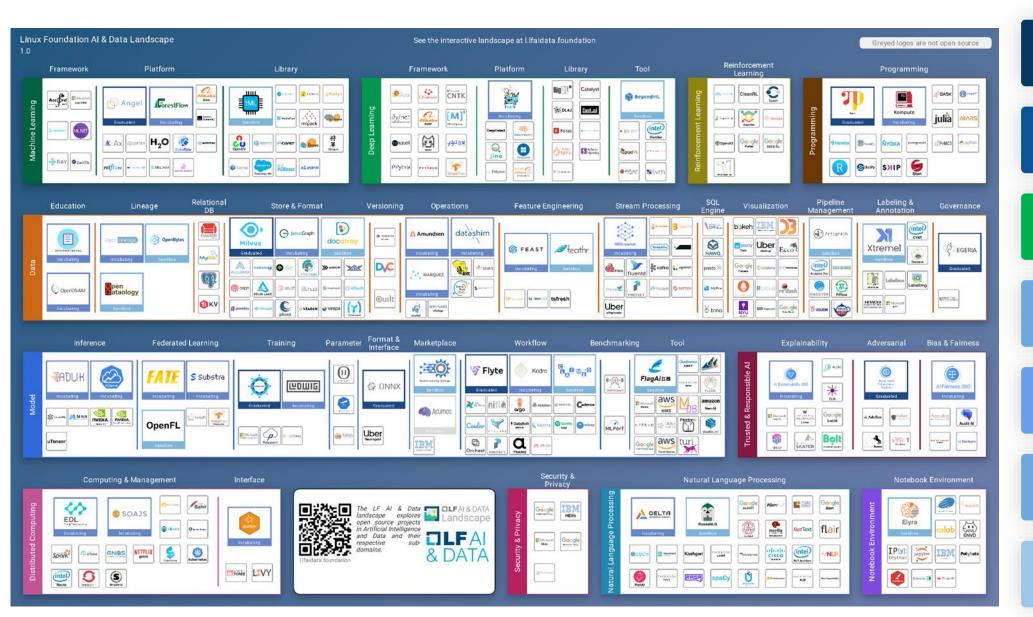
Hosting process - kicking off feedback on project lifecycle

Getting involved



A growing ecosystem https://l.lfaidata.foundation





336 Projects

2.7M+ GitHub Stars

95K+ Developers

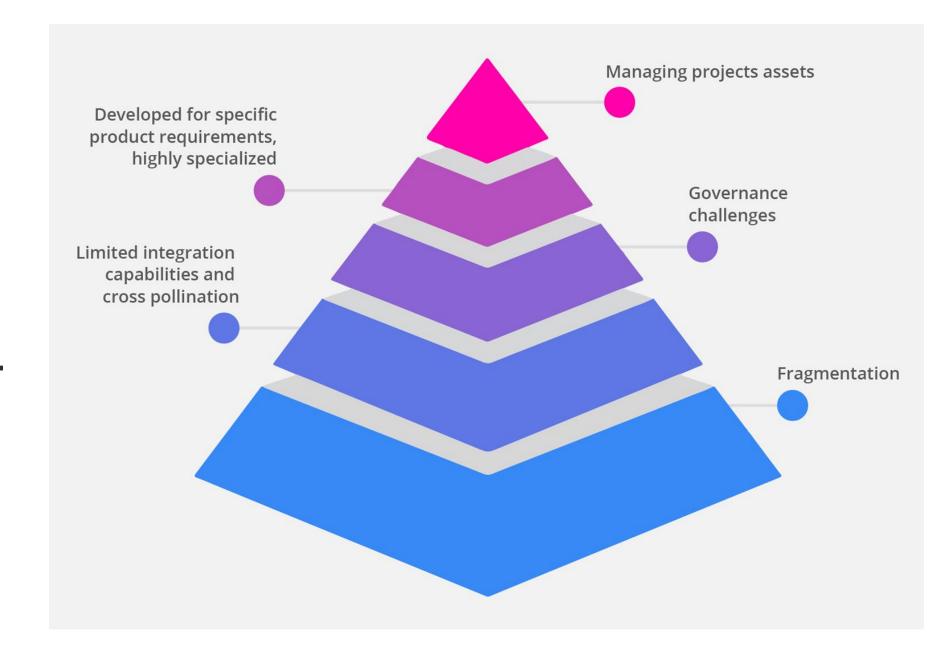
190+ Founding Org

600M+ LoC

1M+ LoC / Week

1000s of Contributing Orgs

But with challenges...



Our Mission

Our mission is to build and support an open AI community, and drive open source innovation in the AI, ML, DL and Data domains by enabling collaboration, sharing best practices, supporting development efforts, and the creation of new opportunities for all the members of the community.



Key stats - unprecedented momentum

49 Member **Organization**

47 **Technical Projects**

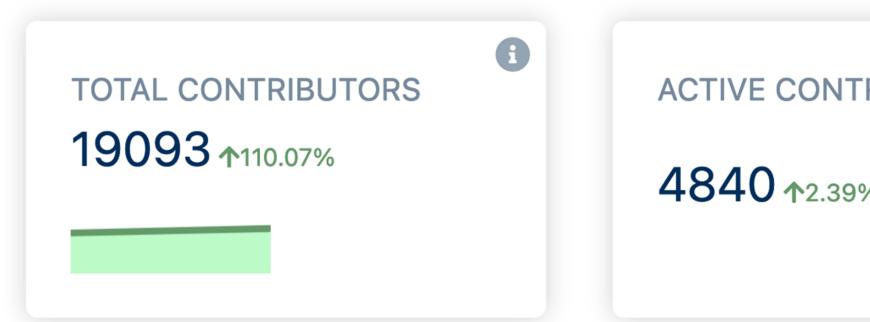
Committees

20+ **Technical Integrations** 18,500+

Contributors

188,000+ **GitHub Pull** Requests

500+ **Active Organizations**

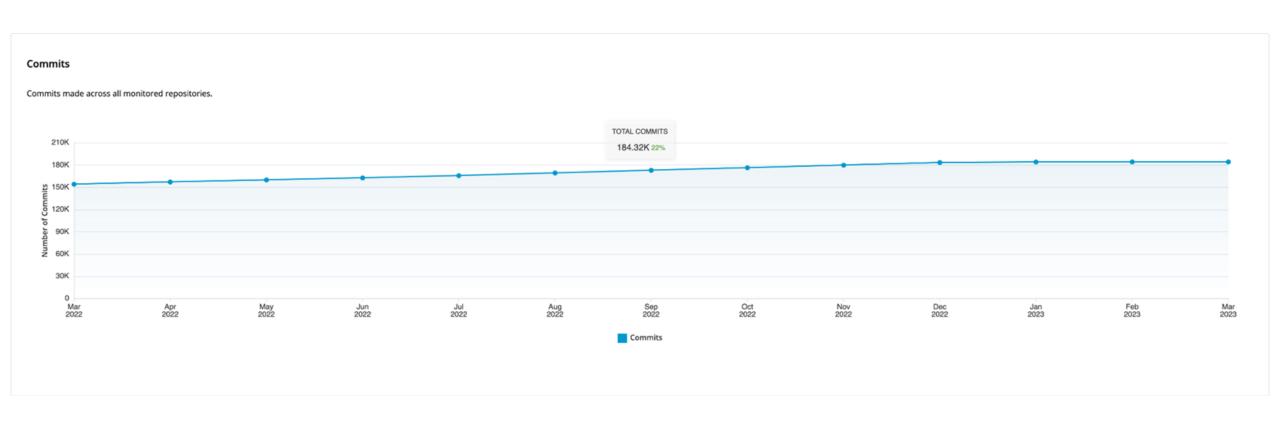




March 15, 2023
Source: LFX Insights

Commit Growth

March 15, 2023, Source: LFX Insights



Members





AMBIANIC















Aivancity School for Technology, Business & Society Paris-Cachan aivancity school for Technology, Business

BAAI

Banque de France Banque de France BasicAl

Beijing Baidu Netcom MCap: \$40.38 Science Technology Co., Ltd.

Beijing Yuanyu Technology Co., Ltd. Primitive Technology

Broadcom Corporation Broadcom



Cloudera, Inc.

CLOUDERA *databricks

MCap: \$11.18

ERICSSON

MCap: \$19.3B









Chaitanya Bharathi Institute Of

Chaitanya Bharathi Institute of Technology

Databricks Inc.

Funding: \$1B

Funding: \$3.5B

DIDI USA

Ericsson

Ersilia Open Source Initiative Ersilia Open Source Initiative

FuriosaAl, Inc.

Galgotias University Galgotias University

GRAVITI TECHNOLOGIES Funding: \$10M

nmunications Corp., Ltd.



High School Technology Services High School Technical Services



Huawei Technologies Co., Ltd Huawei Technologies

OpenUK

Paradigm4, inc.



ING Group MCap: \$31.5B ING Group



International Business MCap: \$106.58 Machines Corporation

Kanpur



International Society of Service Innovation



Jina Al Limited Jina Al Limited



Ken Kennedy Institute Ken Kennedy Institute



Montreal Al Ethics Institute Montreal Al Ethics Institute



New York University



MCap: \$24.48

新一代人工智能开源开放平台



Penn State Great Valley - Funding: \$13.4M The Pennsylvania State University Penn State University



Pranveer Singh Institute Of Technology Pranveer Singh Institute Of Technology

precisely

Precisely Holdings, LLC Funding: \$2.2M



Quantitative Insights



MCap: \$106.58 Red Hat



Funding: \$166.4M RStudio



Sahyadri College of Engineering & Sahyadri College of Engineering and



SAS Institute Inc. SAS

Nokia Corporation

Nokia



Shanghai OpenSource Information

4Paradigm The 4th Paradigm Technology Co., Ltd

The Institute for Ethical AI & Machine



Union.ai



University of Washington Funding: \$88.8M University of Washington



Université Libre de Tunis



MCae: \$45B VMware



Funding \$1.8M XPRIZE

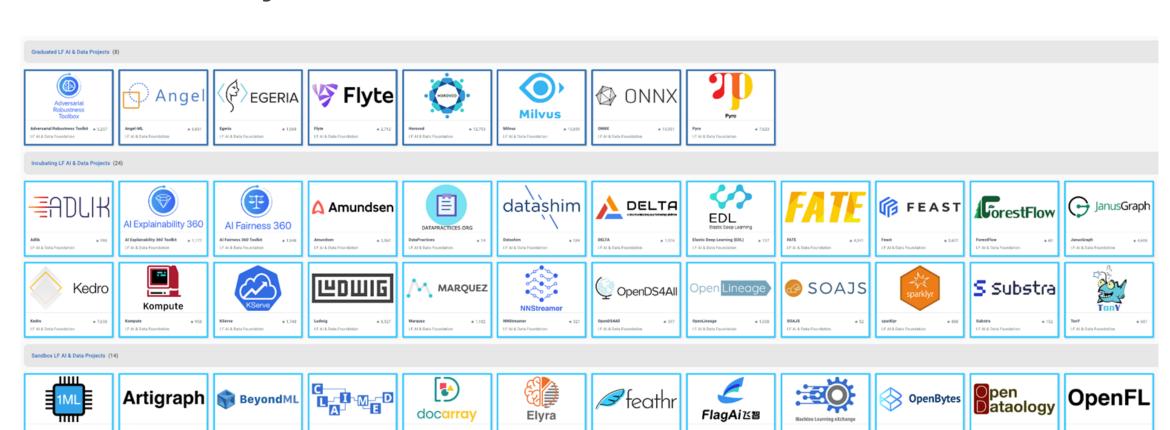


Funding: \$113M



Shanghai OpenSource Information Technology Association

Hosted Projects







Industry Leaders Host Their Projects in LF AI & Data

























































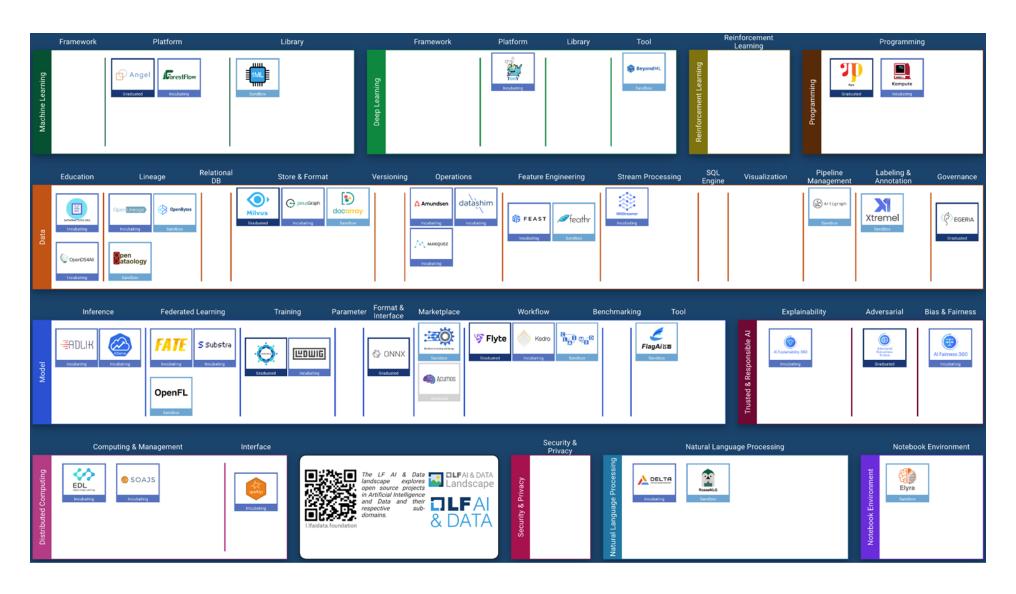




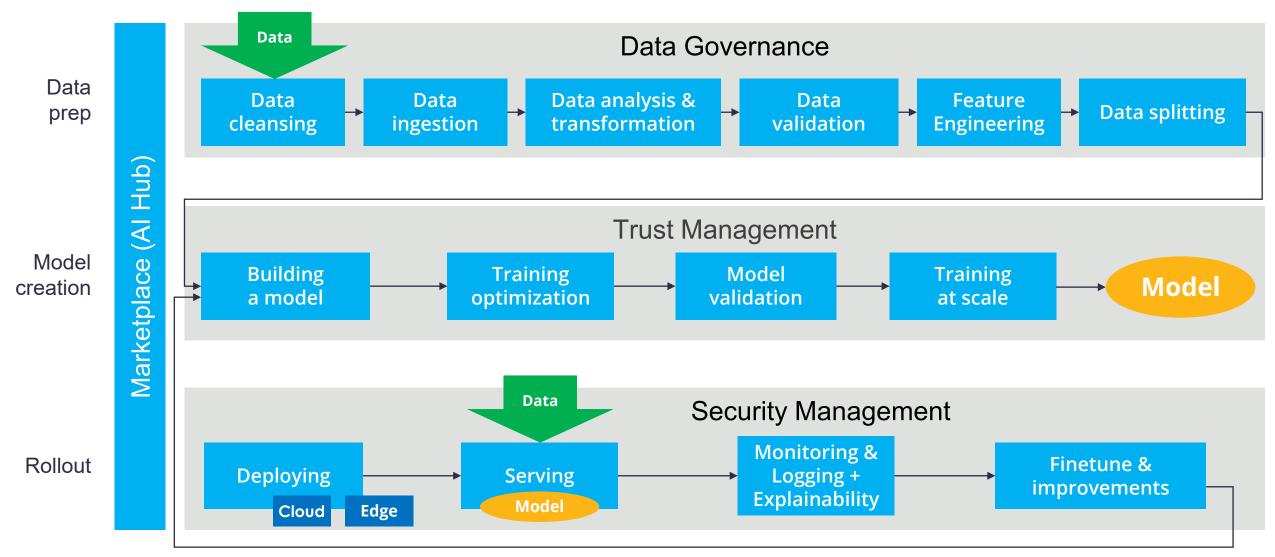


ver 12% of the ecosystem's key projects depend on LF AI & Data

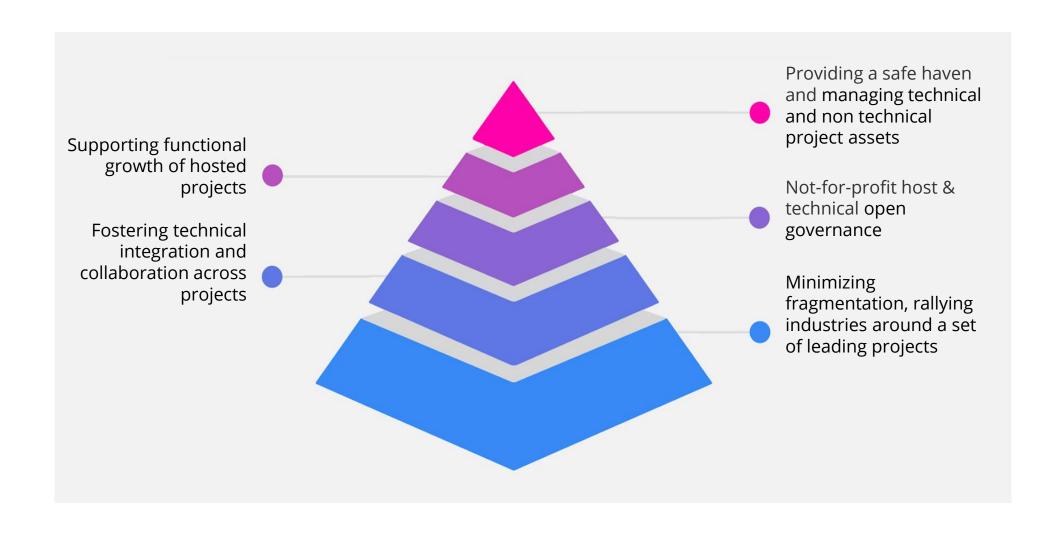
for their open governance, safe haven for their assets, infrastructure, and enabling marketing, legal and event services, and staff that is eager to help and support the communities of these various projects



LF AI & Data provides a leading technical project for every phase of your ML Workflow



LF AI & Data is addressing key ecosystem challenges



Services available to hosted projects

NEUTRAL HOSTING

A neutral home for an open source project increases the willingness of developers from software companies, startups, academia, and elsewhere to collaborate, contribute, and become committers.

DEDICATED STAFF

Projects have access to full-time staff (executive director, program manager, project coordinator) who cultivate the maturity and adoption of open source Al and data projects

TRAINING AND CERTIFICATION

We develop training classes and, through the Linux Foundation, can execute and launch certification programs in support of hosted projects.

EVENTS MANAGEMENT

Events are part of LF AI & Data's core strategy to help projects build a community and accelerate knowledge-sharing and integration. Many LF AI & Data projects have their own events.

DEV-FOCUSED OPERATION

Services include IT infrastructure, release management, IT ops, support, security audits, and a host of tools (FOSSA, LastPass, Slack, Synk, Zoom, etc.).

MENTORSHIP

Members of the LF AI & Data technical advisory committee and leaders of graduated projects are available to support and mentor new projects.

LEGAL SERVICES

We help projects navigate licensing requirements, IP regimes, trademark management, compliance scans, export control filings, and developer certificate of origin or contributor license agreement integration with GitHub, etc.

MARKET SERVICES

We offer a wide range of marketing services to increase project awareness, project adoption, and the number of contributors.

DESIGN AND AESTHETICS

Our in-house team provides graphic design resources for new logos, websites, and website refreshes or enhancements.

PROGRAM MANAGEMENT

We have decades of experience in program management of open source projects. We bring best practices to all LF AI & Data hosted projects.

LFX PLATFORM EXPERIENCE

This Linux Foundation product offers a set of integrated tools for project insights, security, easy contributor license agreements, crowdfunding, member engagement, and more.

What have we done so far?



- 1. Build up the operation of the foundation
- 2. Build up the services for projects
- 3. Grow the technical portfolio
- 4. Grow membership to sustain projects
- **5.**Grow the developer community
- 6. Address specific challenges in key areas via committee efforts

Time to revisit our mission and project hosting policies

Mission and vision → Board effort

Project hosting → TAC effort

Hosting Process



Technical Advisory Committee

- The TAC serves a coordination role:
 - Votes on new projects joining LF AI & Data, as well as on promoting projects across incubation StageS
 - Facilitates communication and fosters collaboration across hosted technical projects
 - Communicates needs and requirements of the projects to the Governing Board
 - Onboards new projects, assists in progression of existing projects, and reviews projects annually
 - Defines and maintains the technical vision for the LF AI & Data Foundation
 - Creates a conceptual architecture for the projects, aligning projects, promoting, removing or archiving projects
 - Defines common practices to be implemented across LF AI & Data projects
- Meetings via conference calls take place every 2 weeks, are recorded and open to the general public
 - https://wiki.lfai.foundation/pages/viewpage.action?pageId=7733341

Project Incubation levels

Sandbox

- Any project that intends to join LF AI & Data Incubation in the future and wishes to lay the foundations for that.
- New projects that are designed to extend one or more LF AI & Data projects with functionality or interoperability libraries.
- Independent projects that fit the LF AI & Data mission and provide the potential for a novel approach to existing functional areas (or are an attempt to meet an unfulfilled need).

Incubation

Sandbox requirements plus:

- Have 2+ organizations actively contributing to the project.
- Have a defined Technical Steering Committee (TSC) with a chairperson identified, with open and transparent communication.
- Have a sponsor who is an existing LF AI & Data member.
- Have at least 300 stars on GitHub.
- Have achieved and maintained a Core Infrastructure Initiative Best Practices Silver Badge.
- Have the affirmative vote of the TAC.

Graduate

Incubation requirements plus:

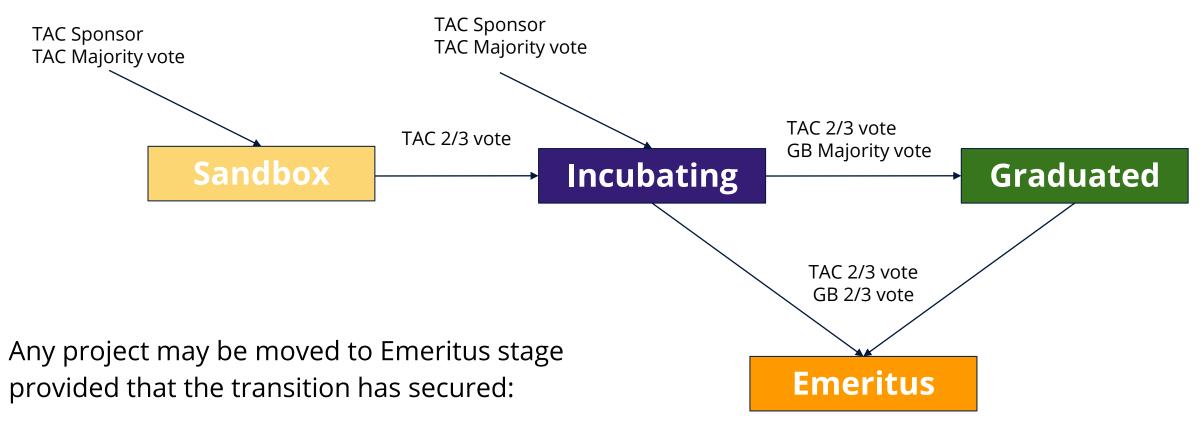
- Have a healthy number of code contributions coming from at least five organizations.
- Have reached a minimum of 1000 stars on GH.
- Have achieved and maintained a Core Infrastructure Initiative Best Practices Gold Badge.
- Have demonstrated a substantial ongoing flow of commits and merged contributions for the past 12 months.
- Receive the affirmative vote of two-thirds of the TAC and the affirmative vote of the Governing Board.
- Have completed at least one collaboration with another LF AI & Data hosted project
- Have a technical lead appointed for representation of the project on the LF AI & Data TAC

Transitioning from Incubation to Graduation

- The TAC will undertake an annual review of all projects
- Projects in the Sandbox Stage are generally expected to move to Incubation within 12 months
 from joining the Foundation following an evaluation by the TAC committee
- Projects in the Incubation Stage are generally expected to move to Graduation within 12-18 months from joining the Foundation following an evaluation by the TAC committee

Projects can be provided with an extension of time in their stage (up to the discretion of the TAC)

Project Lifecycle



- > TAC affirmative \(\frac{1}{2} \) vote
- > GB affirmative ⅔ vote

Process for proposing a project for hosting in LF AI & Data

- 1. Decide on a date to present to the TAC and request incubation
- 2. Ensure that your project implements these <u>recommendations</u>
- 3. Submit a formal request to incubate the project via a GH PR
- 4. Prepare deck and share with ED about 10 days prior to the presentation
- 5. Present to the TAC and get approval
- 6. Onboard the project with the LF AI & Data team and integrate the project with our service
- 7. Announce the project becoming hosted in LF AI & Data

Incubation Benefits by Levels

Sandbox

- Neutral hosting of the project's trademark and assets
- Announcement of the project hosting and social promotion on quarterly basis.
- Right to refer to the project as a "LF Al & Data Foundation Project."
- An initial and regularly scheduled license scan of the project's codebase with results reported to the project's mailing list.
- Basic infrastructure support that includes mailing lists, wiki space, slack channel, etc.
- Basic marketing, communication, and PR support, limited to major announcements.
- Access to Foundation staff who are eager to help and support the project.
- Access to LFX platform services

Incubation

Sandbox benefits plus:

- Appointment of an existing TAC member that will act as a sponsor of the project and provide recommendations regarding governance best practices.
- Create the project's artwork, website and other required creative work.
- Marketing, PR and communication support that includes project promotion via blog posts, social media and web site.
- Access to Bevy platform for community hosted events.

Graduate

Incubation benefits plus:

- Graduate projects are eligible to receive support as determined by the Governing Board.
- LF AI & Data blog announcement or similar announcing the graduation of the project including promotion activities.
- Graduation stage projects gain a voting seat on the TAC.
- Advanced IT infrastructure support.
- Additional ecosystem development opportunities, such as conformance programs, training, etc.

Process to provide feedback on incubation level, criteria and benefits

- 1. Visit the Project Lifecycle <u>Document</u> hosted on Google drive
- 2. Leave suggestions in the document itself

We will accepted feedback starting today 03/23/2023 for two weeks until 04/05/2023. We will then present the feedback and updated document on the TAC call on 04/06/2023 and iterate on any pending feedback. The TAC will then vote to adopt the updated document on 04/20/2023. The document will then be published on the website and GH.

Getting Involved in LF AI & Data



Getting involved with technical projects

Participate in the development: Review and submit patches, report bugs, request features, test, etc.

☑ Contribute to project documentation

Join the projects' mailing lists and participate in the discussions

Attend developer events for LF AI & Data projects

Provide your testing and deployment feedback via appropriate project channel

✓ Start a local User Group Meetup

Getting involved with the Technical Advisory Council

- Support TAC leadership in inviting speakers to present for the LF Al & Data technical community
- Share success stories, opportunities and challenges in relation to open source AI with the broader technical community
- Support technical leadership for integration and harmonization efforts with other open source projects
- Support TAC in evaluating new projects for incubating; recommend new projects
- Participate in the ML Workflow effort aiming to provide a reference workflow and support integration across LF AI & Data projects

- Attend TAC Bi-weekly calls, participate in the discussions
- Identify opportunities for collaboration on common interests and initiatives, seek input from peers
- Support TAC in hosting and sponsoring intraproject and inter-project developer events
- Support TAC Chair working with the GB to highlight opportunities and needed resources in support of hosted projects
- Participate in the effort to enable collaboration with other LF umbrella foundations and external communities

Getting involved with the Outreach Committee

- Promotion of project updates, releases, and news via LF AI & Data social media accounts
 - Marketing and PR support for demos at meetups and events
- Contribute to the LF AI & Data landscape, promote in talks
- Identify speaking opportunities
 and help secure speakers from
 the LF AI & Data community

- Attend Outreach Committee

 meetings and participate in
 ongoing activities
- Host vendor neutral content via LF AI blog site
- Coordination at events,
 speaking proposals, booth attendance, demos, etc.
- Help secure user stories about

 LF AI & Data based
 deployments

- Publish use cases, case studies, white papers, and deployment insights
- Get support for artwork, web site, content creation, etc., for LF AI & Data projects
- Volunteer to host an LF AI & Data Day and developer events
- Support LF AI & Data marketing and PR staff

Getting involved with the LF AI & Data Committees

- Join the committee as a representative of your company
- Join the conference calls and contribute to ongoing efforts

Promote the work of the committee, invite your collaborators to participate

Contribute to the landscape, promote in talks

Coordination at events,
speaking proposals, booth attendance, demos, etc.

Subscribe to the mailing list and participate in discussions

Host your related projects in the LF AI & Data Foundation

- Help secure user stories about

 LF AI & Data based
 deployments
- Invite prominent researchers
 and developers in the space to speak to the community

LF AI & Data Ibrahim Haddad, PhD



Upcoming TAC Meetings



Upcoming TAC Meetings

- April 6 Proposal New Project from Alibaba, Amundsen annual review (tentative)
- April 20 Project annual review (open to be scheduled)

Please note we are always open to special topics as well.

If you have a topic idea or agenda item, please send agenda topic requests to tac-general@lists.lfaidata.foundation



Open Discussion



TAC Meeting Details

- To subscribe to the TAC Group Calendar, visit the wiki: https://wiki.lfaidata.foundation/x/cQB2 _____
- Join from PC, Mac, Linux, iOS or Android: https://zoom.us/j/430697670
- Or iPhone one-tap:
 - > US: +16465588656,,430697670# or +16699006833,,430697670#
- Or Telephone:
 - Dial(for higher quality, dial a number based on your current location):
 - US: +1 646 558 8656 or +1 669 900 6833 or +1 855 880 1246 (Toll Free) or +1 877 369 0926 (Toll Free)
- Meeting ID: 430 697 670
- > International numbers available: https://zoom.us/u/achYtcw7uN



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