LF AI & Data

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LF AI & Data

Collaborating to support an open and growing ecosystem of open source AI, data and analytics projects, by accelerating innovation, enabling collaboration and the creation of new opportunities for all the members of the community

https://lfaidata.foundation



Ecosystem Overview



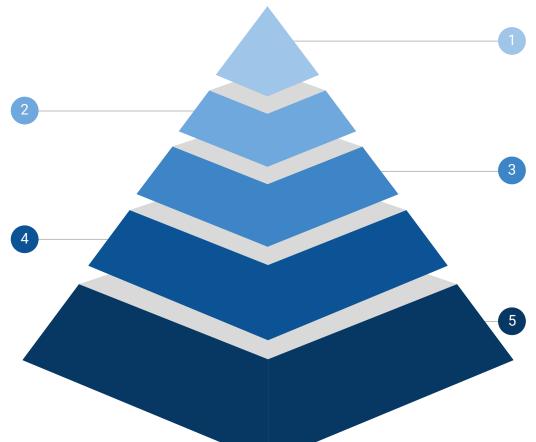
Open Source Al & Data - Ecosystem Challenges

Managing projects assets

As project grows, it is unclear who should own legal and administrative tasks that are essential to the health of the project

Governance challenges

No formal governance, governance favors the creators of the project, project backer dominating dev and governance



Glass ceiling for project investment and adoption

in the absence of a fair governance and safe haven for the project's assets

Developed for a specific product needs

The open source spinoff is a result of wanting to build an ecosystem and collaborate on building a platform

Fragmentation
Lack of integration
Lack of cross pollination across
projects



Enter LF AI & Data

TLFAI & DATA

What is LF AI & Data?

- Non-profit
- Open source collaborative effort focused on AI & Data
- Hosted at the Linux Foundation
- Focused on supporting open source AI & data projects and accelerating innovation and their trajectory to adoption



Open Source offers *unique* benefits to Al & Data

Fairness

Methods to detect and mitigate bias in datasets and models, including bias against known protected populations

Robustness

Methods to detect alterations/tampering with datasets and models, including alterations from known adversarial attacks

Explainability

Methods to enhance understandability and interpretability by persona/roles in process of Al model outcomes/decision recommendations, incl ranking and debating results and decision options

Lineage

Methods to ensure provenance of datasets and Al models, including reproducibility of generated datasets and Al models

Open Data

Methods to clean, sort, tagg and track provenance and a governance structure for doing these things

Goals of LF AI & Data

Improve interoperability and capabilities across hosted projects, reduce fragmentation

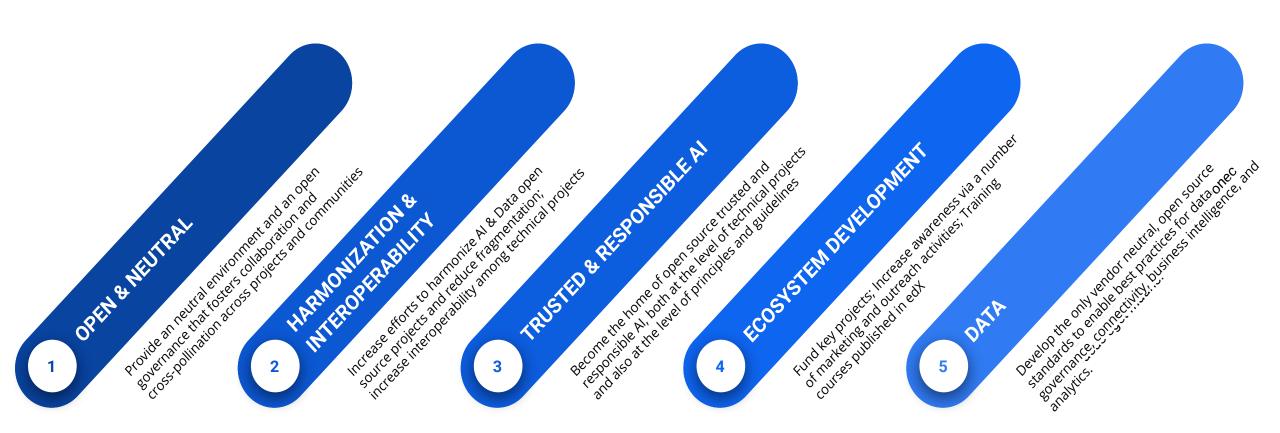
Enable closer collaboration and integration, and the support of a single Technical Advisory Council Provide unified guidance to end users on tools, interoperability, integration, and standards

Develop an ecosystem of developers, users, expertise adopting and relying on the same projects

Build a strong open source AI and Data ecosystem



Why is LF AI & Data important?





LF AI & Data Growth

- Launched in 03/2018 with 9 members and 1 hosted project
- +3 projects in 2018
- +5 projects in 2019
- > +15 projects, +16 members in 2020
- Currently supported by 46 member companies
- > >2000 subscribers to our main mailing list



Very active community Jan 1- Dec 31, 2020

8.92K

Contributors

217K

Contributions

100.03K

Commits

358

Repositories

6.93K

Emails

34.65K

PRs/Changesets

2.08K

Slack messages

22.54K

Total issues



Structure and Governance

Foundation Governance

Funding effort to support hosted technical projects

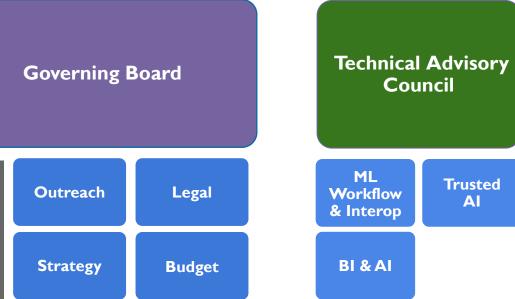
Technical Coordination,

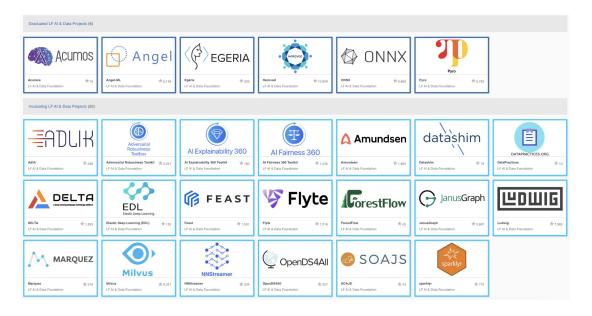
New Initiatives

Technical Advisory Council

Hosted Projects

Projects have their own independent technical governance







Committees

Members

https://landscape.lfai.foundation/members?project=hosted

LF AI & Data Member Company - Premier

















LF AI & Data Member Company - Associate































LF AI & Data Member Company - General



CLOUDERA



databricks



Herron Tech



























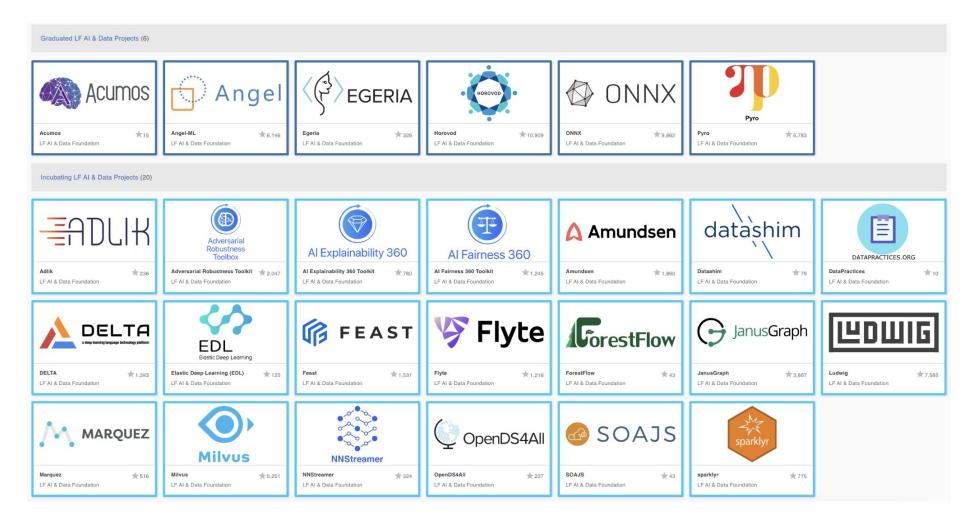






Projects

https://landscape.lfai.foundation/card-mode?project=hosted





Incubating Projects

- TAC committee is responsible to voting in new incubation projects.
- The TAC meets bi-weekly and generally booked 4-6 weeks in advance.

Proposing projects for incubation



Companies hosting projects in LF Al & Data https://landscape.lfai.foundation/format=hosting











































Why incubate with us?

Building large, sustainable ecosystems requires collective resources



Events - We gathered over 45,000 attendees from over 12,000 organizations across 113 countries in 2019.



Legal - We manage IP for the world's most important tech and have one of the world's top open source legal teams in house.



Training - We trained millions of students (free and paid online), online skills certification, and on-site e-learning.



Certification - We designed and executed software and hardware testing and certification programs.



Developer Marketing - We have the largest share of voice of any open source foundation and a proven method to build large scale developer programs.



Developer Operations - We host the infrastructure that develops the world's largest software communities and provide release management, IT ops, and support.



Application Security- our projects are regularly audited and pen tested. We offer bug bounties, dependency analysis, and code scanning.



What does it mean to be a Foundation project?

- A neutral home for the project increases the willingness of developers from organizations to collaborate, contribute, and become committers
- Endorsement by members of the LF
 Al & Data Technical Advisory
 Committee (TAC) is an independent
 signal of the quality of your project
- Open and neutral governance model
- Program and project management services
- Access to full-time staff who are eager to assist your project

- Access to marketing and communications services to support community and ecosystem engagement
- Access to a full range of events services to help the project build and grow a community around it
- Legal support ranging from hosting the trademark in a neutral organization to CLA and DCO system integration with GitHub, regular compliance scans, etc.
- Presence across multiple geographies including China and Japan



Strong Marketing/PR/Community Effort

LF AI provides marketing services to support community and ecosystem engagement.

37 announcements in 2019

61 announcements in 2020

- Events announcements and promotion
- Project release
- Project incubation
- New members joining
- Project cross collaboration
- Invited posts

LF AI provides event and community ecosystem building services.









Joining LF Al & Data is Easy!













General Inquiries:

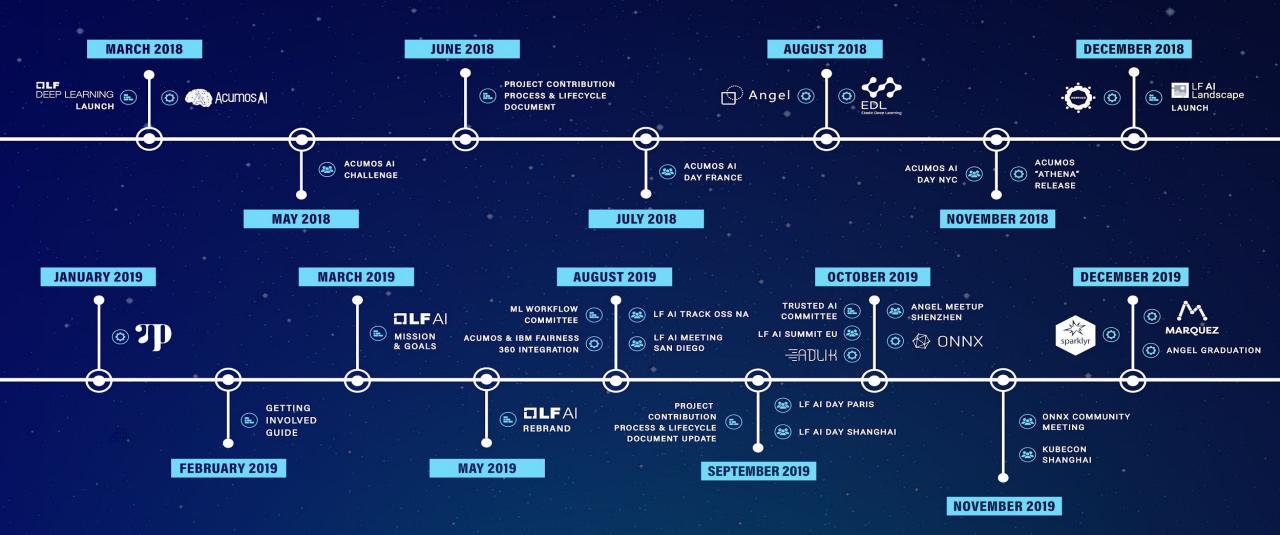
info@lfaidata.foundation



Backup

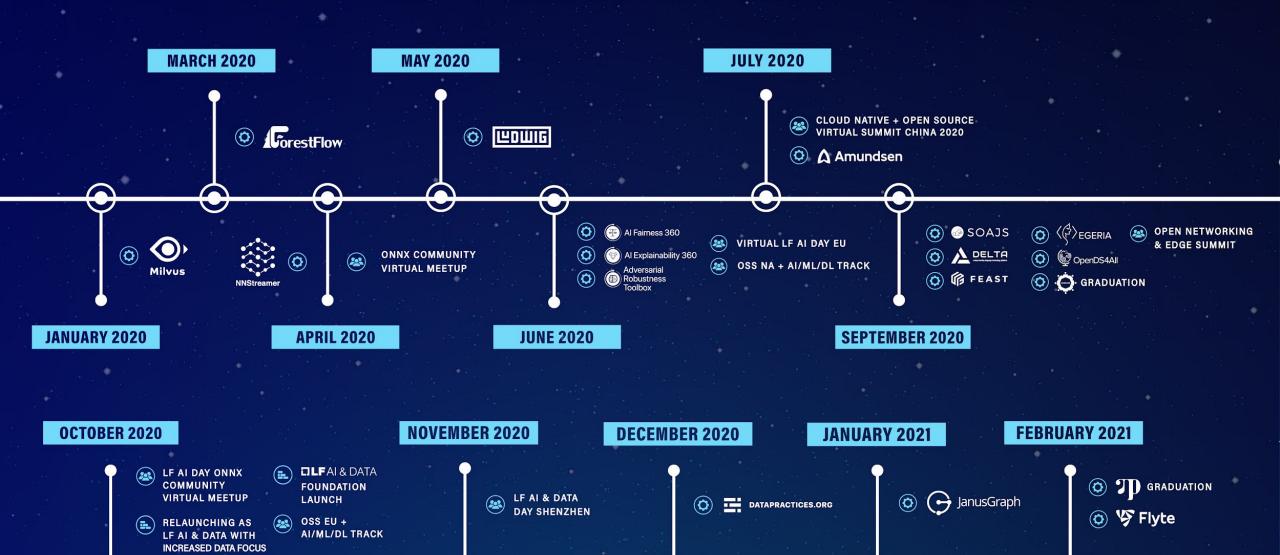


TILFAITIMELINE 2018-2019





TILFAI& DATA TIMELINE 2020-2021



Why these top companies host with LF AI & Data?

The Linux Foundation is the leading commons for community assets

- The Linux Foundation (LF) is a recognized and respected brand and can activate communications across tech, business, and social media channels.
- The LF is the largest open source foundation, providing management of community assets for over 400 projects:
 - Over 3,400 source code repositories.
 - Over 700 trademark registrations and applications, plus hundreds of unregistered marks.
 - Over 700 project domains and DNS records.
 - Over 12,000 Contributor License Agreements signed for project communities that decide to require one.
- The LF offers neutral sponsorship for managing fundraising.
 - Over 1,600 unique member company relationships.
- Our communities raised over \$100 million in 2019 via 6,500+ invoices.
 - Our communities spent funds in 180,000+ separate transactions in 2019.
 - The LF reports its audited financials to its board.



We all are aware of the advantages of open source ...

Access to source code

Ability to customize

Rapid development

Peer review

Improved quality and security

Reduce dev time and TTM

Flexible licensing model

Community driven innovation

Influence roadmap via participation

Transparent technical discussions

