LF AI & Data

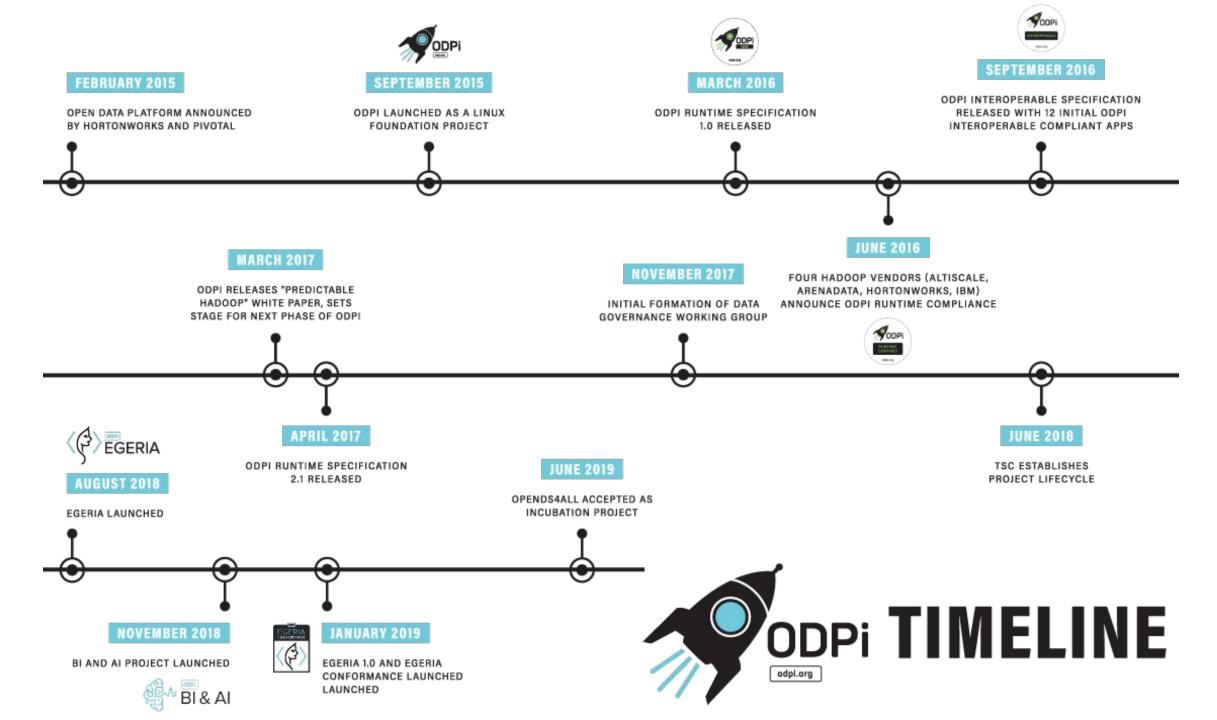
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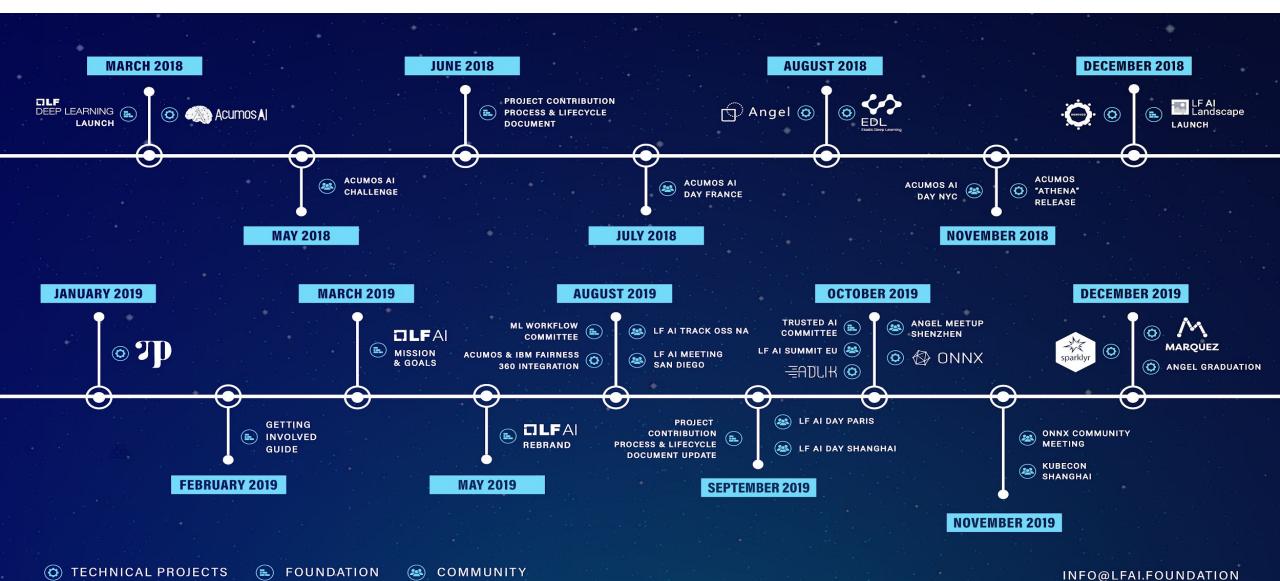


LF AI & ODPi joining efforts under LF AI & Data

TLFAI & DATA



LF AI 2018 - 2019 Timeline



LF AI 2020 Timeline





LF Al and ODPi Combining Efforts in Al and Data

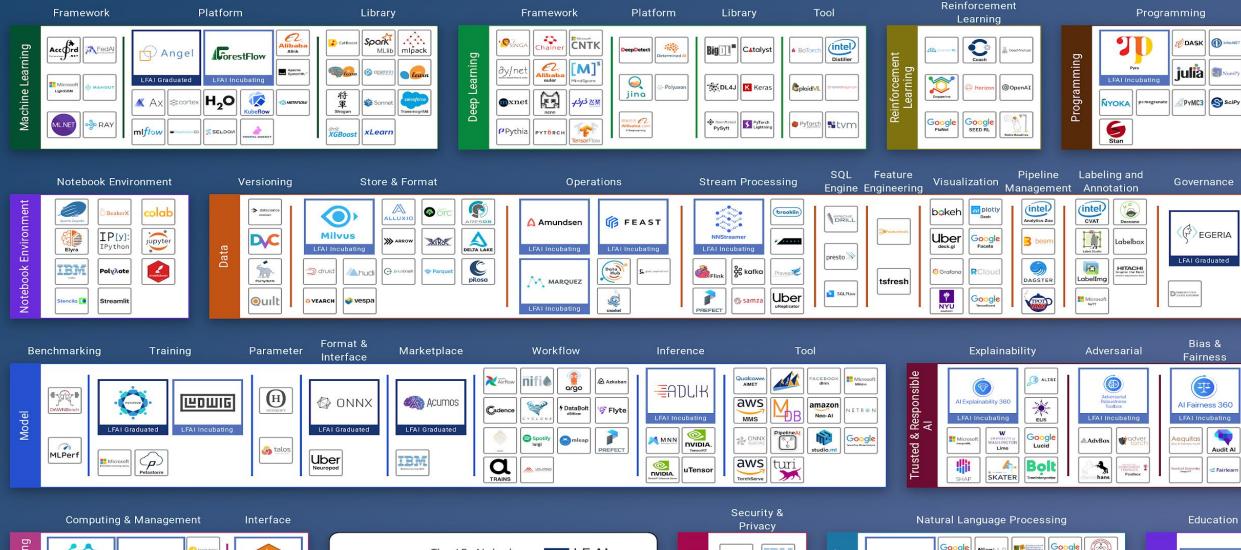
Combining efforts will:

- Pring developers/data scientists and their projects under a single roof, served by a single Technical Advisory Council and several committees (Trusted AI, BI & AI, ML Workflow and InterOp), to work together towards building the open source AI & Data ecosystem and accelerating development and innovation.
- Provide unified guidance for end users on tools, interoperability, integration, standards, and the future of AI, Data and Analytics as its use continues to grow in every industry.
- Enables close collaboration, integration, and interoperability across projects hosted within the same umbrella foundation - which is a proven, industry best practice recipe for building strong open ecosystems.
- Allow greater efficiency for members across the various services we offer to hosted projects in the AI and Data domains.



Ecosystem Overview

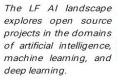




















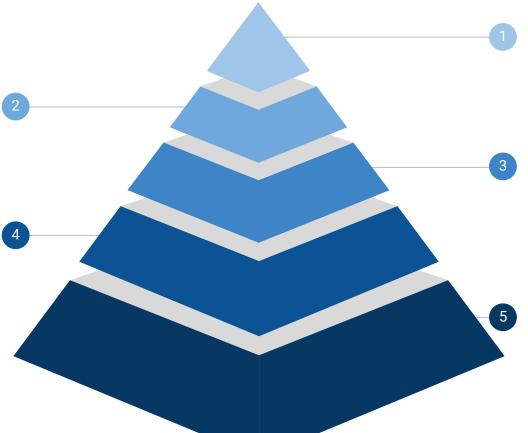
Open Source Al & Data - Ecosystem Challenges

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



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



But, 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

TILFAI&DATA

LF AI & Data is an LF umbrella foundation that brings together the LF AI and ODPi communities to further support collaboration and the acceleration open source innovation in AI, ML, DL and Data.

TILFAI & DATA

Mission

To build and support an open community and a 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



Motivations for Harmonization

Improving interoperability and capabilities across hosted projects

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

Achieve greater efficiencies in support services for a growing number of hosted projects

Build a strong open source AI and Data ecosystem



Structure and Governance

Foundation Governance

Funding effort to support hosted technical projects

Technical Coordination, New Initiatives

Hosted Projects

Projects have their own independent technical governance









Major Efforts

Neutral Environment

Provide an neutral environment and an open governance that fosters collaboration and cross-pollination across projects and communities

Harmonization, Interoperability

Increase efforts to harmonize AI/ML/DL open source projects and reduce fragmentation; increase interoperability among technical projects

Trusted and Responsible Al

Become the home of open source trusted and responsible AI, both at the level of technical projects and also at the level of principles and guidelines

Data

Develop the only vendor neutral, open source standards to enable best practices for data governance, connectivity, business intelligence, and analytics.

Model Marketplace

Host open source models and provide supporting tools; publish best practices; offer a marketplace for Al/ML/DL models

Funding and Awareness

Provide a funding model for key projects

Increase awareness via a number of marketing and outreach activities

Training courses published in edX



Vendol neutral

#

Not-for profit

#

Open governance

#

IP clarity



TAC ML Workflow & Interop

Cross Foundation Collaboration

#

Integration efforts



Trusted Al Committee

#

3 Core Projects

#

edX Training



BI & AI Committee

#

Large number of Data hosted projects



Open Source Model marketplace



Funding model

#

LF AI & Data Days, LF AI & Data Summit



Services: Marketing, Legal, Events and PM

Members

https://landscape.lfai.foundation/format=members





Projects

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

Graduated LFAI Projects (5)











Incubating LFAI Projects (17)







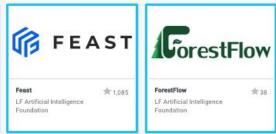






























What does it mean to be a Foundation project?

- 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



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









































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.



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.



Strong LF AI & Data Marketing/PR Effort

37 announcements between LF Al and ODPi in 2019

27 announcements between LF Al and ODPi in 1H 2020

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

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

- Content ranging from the LF AI blog, white papers, posters, presentations, and more
- Oversee blog editorial calendars and writing, editing, and/or identifying and funding freelancers to develop content
- Help develop the project website and other required creative work



Events and Community

- LF Al & Data Summit co-located event with major LF conferences + Booth
- LF Al & Data Track at Open Source Summit (NA, EU, China) - Supporting 18-20 talks over 3 days + Booth
- LF AI & Data Days a whole day (in person and virtual) hosted in collaboration with an LF AI & Data member with audience ranging from 50-250. Multiple/year.
- Talks at other leading industry events and regional events (All Things Open, Data Con LA, Big Data Conference Europe)
- Project specific events
- Sponsorship and booth at KubeCon
- Strong presence & event participation in China









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



Joining LF Al & Data is Easy!













General Inquiries:

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