LF AI: Accelerating Open Source AI Innovation and Collaboration

Ibrahim Haddad, Ph.D.

Executive Director

Ibrahim@LinuxFoundation.org

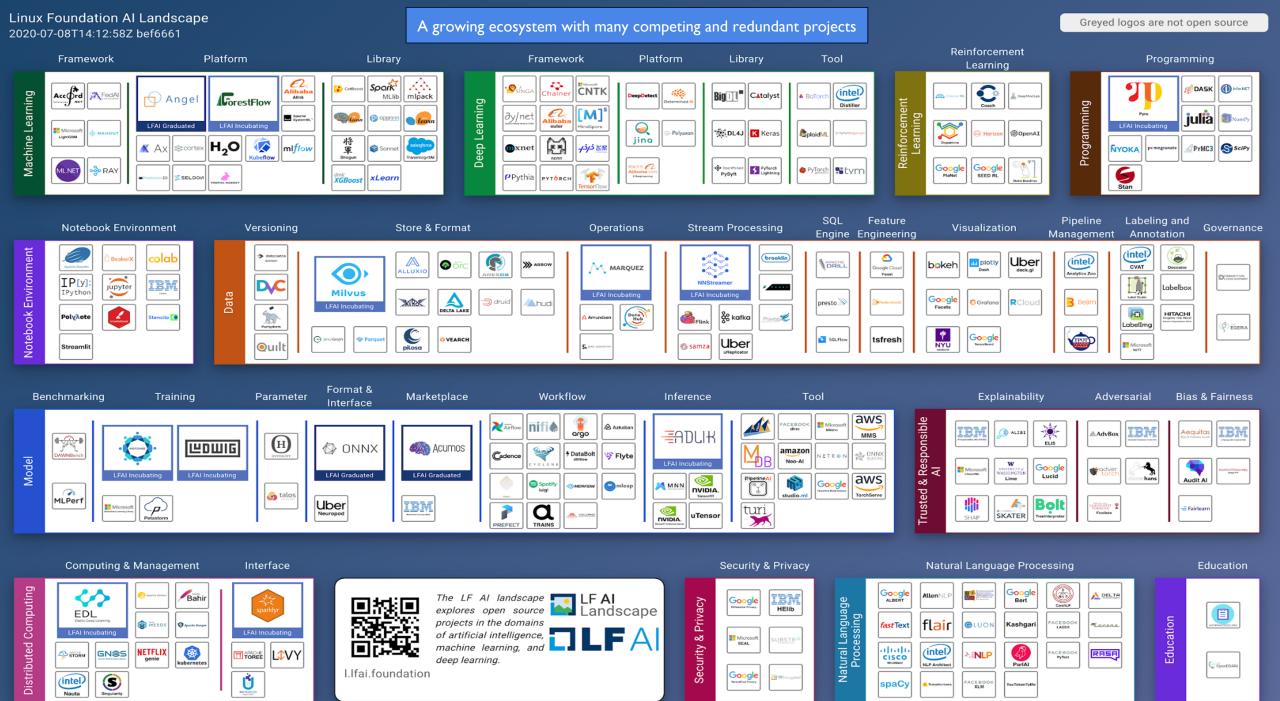
@IbrahimAtLinux



LF AI is an LF umbrella foundation founded in March 2018 to support collaboration and open source innovation in the AI, ML, and DL

https://lfai.foundation

THE LINUX FOUNDATION



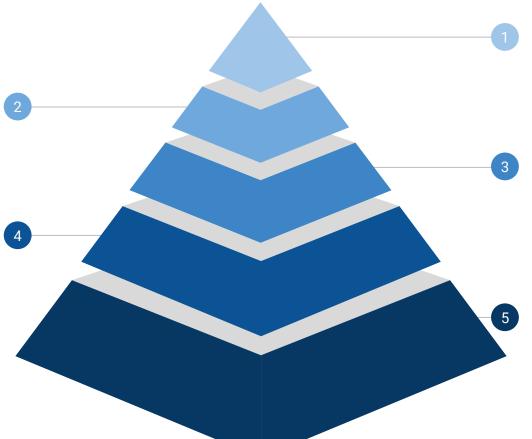
Open Source AI - Ecosystem Challenges

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



Motivations for Harmonization

- 1. Better integration, interoperability and capabilities across projects
- 2. Greater efficiency for members across various costs spent on supporting and growing the ecosystem
- 3. Unified guidance for end users on tools, interoperability, integration, standards, and the future of Al, Data and Analytics as its use continues to grow in every industry
- 4. Hosting projects under a single umbrella enables closer collaboration and integration across projects and is a proven recipe for building a strong open ecosystem



LF AI Structure

Funding Governance

Governing Board

Committees

Outreach

Legal

Strategy

Budget

Technical Coordinatio

n

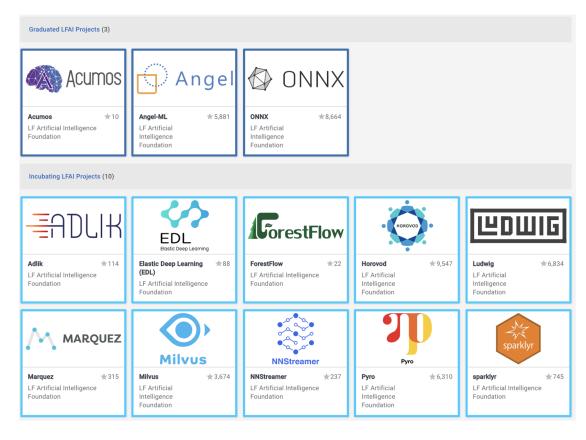
Technical Advisory Council

(TAC)

ML Workflo w & Interop

Trusted AI

Hosted Projects







Governance

- Foundation governance: funding effort to support technical projects hosted under the Foundation
- Technical governance: hosted projects have their own independent technical governance
- The Foundation's Charter is available from https://lfai.foundation
- Dedicated Staff



LF Al 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, Models, Marketplace

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

Vendor neutral Not-for-profit Open governance IP clarity Technical Advisory Council
ML Workflow & Interop
Cross-Foundation Collab
Integration across projects

Trusted Al Committee

Open source Marketplace
Open source Al models

Funding model

LF AI Days

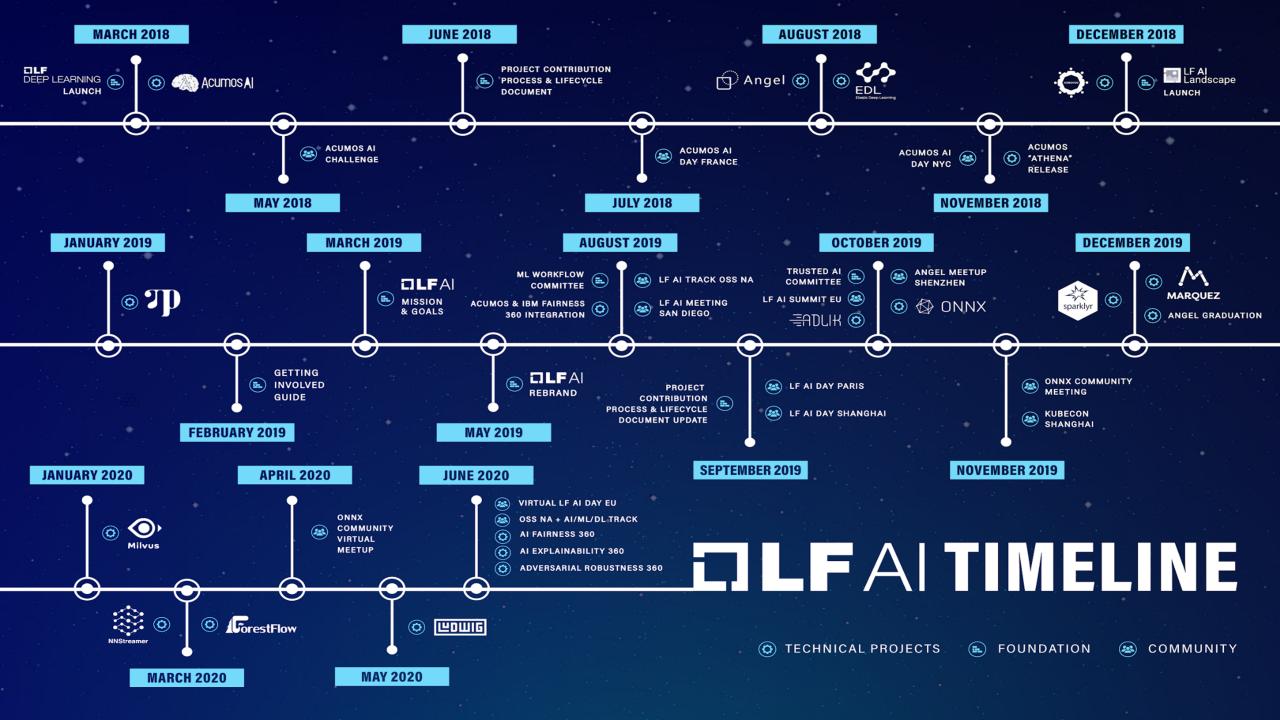
LF AI Summits

Marketing services

PM services

Event services





Members



Projects

Graduation

Incubation

Graduated LFAI Projects (3)



±10 Acumos LF Artificial Intelligence



\$5,881 Angel-ML

LF Artificial Intelligence Foundation



*****8,664

±22

ONNX

LF Artificial Intelligence Foundation

Incubating LFAI Projects (10)

Foundation



Adlik **±**114

LF Artificial Intelligence Foundation



Elastic Deep Learning (EDL)

LF Artificial Intelligence Foundation



ForestFlow

LF Artificial Intelligence Foundation



★9.547

*****6,310

Horovod

LF Artificial Intelligence Foundation



Ludwig **★**6,834

LF Artificial Intelligence Foundation



*****315

Marquez

LF Artificial Intelligence Foundation



Milvus *****3,674

LF Artificial Intelligence Foundation



NNStreamer ±237

LF Artificial Intelligence Foundation



Pyro

LF Artificial Intelligence Foundation



sparklyr

LF Artificial Intelligence Foundation

★745

Incubating Projects

- LF Al's 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 in LF AI:
 https://lfai.foundation/proposal-and-hosting-process/



Project Resources

Hosted project stages and life cycle: https://lfai.foundation/project-stages-and-lifecycle/

Offered services for hosted projects:

https://lfai.foundation/services-for-projects/





Companies hosting projects in LF Al



































Universities Contributing Code to LF AI Projects

























Stay Connected with LF Al!

Social

- Follow @LFAI Foundation on Twitter
- Connect via LF Al Foundation on LinkedIn



Mail Lists

- TAC Participate in technical governance and hear about LF AI projects
- **Events** Learn about upcoming events
- Announce Stay in the loop on top level Foundation information

Blog

Check the latest news on our Blog LFA





Joining LF Al Foundation is easy!

Please follow up with **Ibrahim Haddad**

Web site https://lfai.foundation

Email

info@lfai.foundation

Landscape https://l.lfai.foundation
GitHub https://github.com/lfai

Wiki

https://wiki.lfai.foundation

Mailing lists https://lists.lfai.foundation/groups



