

LF AI & Data: Accelerating Development and Innovation in the Open Source AI and Data Domains

February 2022

Ibrahim Haddad, Ph.D.
Executive Director, LF AI & Data
Ibrahim@LinuxFoundation.org



Introduction to Linux Foundation



The Linux Foundation's goal is to create the greatest shared technology investment in history by enabling open collaboration across companies, developers and users.

We are the nonprofit organization of choice to build ecosystems that accelerate open source technology development and commercial adoption on a global scale.



We are behind some of the most critical projects in the world

Security



Networking



Cloud



Automotive



Blockchain



Edge/IoT



Web



AI



Film



Open Shading Language

CI/CD



Energy



Hardware



Standards



Building large, sustainable ecosystems requires collective resources

2000+

Members From
41 Countries



100%

of Fortune 100
Tech & Telecom



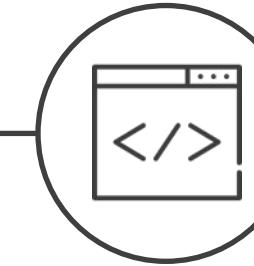
242,960+

Developers
Contributing Code



730+

Critical Open Source
Projects



\$54.1B

Shared
Value



The Linux Foundation is a critical part of modern technology

31.2M
Lines of Code
Added Weekly



1.1M
Pull Requests



10,334
Scanned
Repositories



20M
Lines of Code
Removed Weekly



735,760
Builds Monitored



236,499
Vulnerabilities
Detected



236,040
Contributing
Developers



815,110
Logged Issues



21,597
Recommended
Fixes



19,442
Contributing
Companies



4.6B
Container
Downloads



13,802
Vulnerabilities
Fixed



12,290
Repositories



5.1M
Chat
Messages
Sent



31,496
CLA
Contributors



10.4M
Commits



4.4M
Email
Messages
Sent



26,998
Community
Meetings



For an Enterprise,
Open Source is about Business Strategy

Open Source Strategic Impact



- Accelerate the development of open solutions
- Provide an implementation to an open standard



- Commoditize a market
- Reduce prices of non-strategic software assets
- Share development costs



- Drive demand by building an ecosystem for products & services



- Partner with others
- Engage customers
- Strengthen relationships with common goals

Increase market opportunity

- › If a certain part of our stack became a commodity and every player adopted it, where can we get first mover and industry leader advantages to expand our market opportunity?
- › Are there open, industry adopted southbound or northbound APIs to allow for interoperability and/or data egress/ingress?
- › Where can we increase customer value with offerings of additional data services, analytics, management, and security? What industry open source base stack can facilitate this?

Take market share through de facto standards

- › Where in the stack can we disrupt a market leading proprietary implementation with a standardized open source implementation that creates a market opportunity for us?
- › Which peers, partners and suppliers, do I need to involve to ensure an open source effort becomes adopted industry-wide?
- › Where can a customer or competitor use open source to create a de facto standard that forces us to change our product development roadmap and R&D/IT investments?

Decrease costs

- › Where is there opportunity to externalize commodity R&D through shared open source development?
- › Where is the client shouldering duplicative costs in non differentiating vendor solutions and how can we use open source to move our relationship up the stack while removing duplicative R&D?

**Strategy is Built Upon Category Creation
through EcoSystem Formation and Industry-Wide
Standardization on Open Source Software**

Open Source enables companies to reshape their industry value chain in ways that are both neutral (to create **Industry Platforms**) and that drive their own competitive goals (through active **Stakeholdership**)

Old World “Standards” = Specifications with Divergent Implementations

New World Standards = Industry-wide adoption of shared technology development and critical deployment alongside specifications to become a de facto platform

Stakeholders invest in active, multi-year **Membership** to see hundreds of millions, sometimes billions, in return by collecting value from **Industry Platforms**

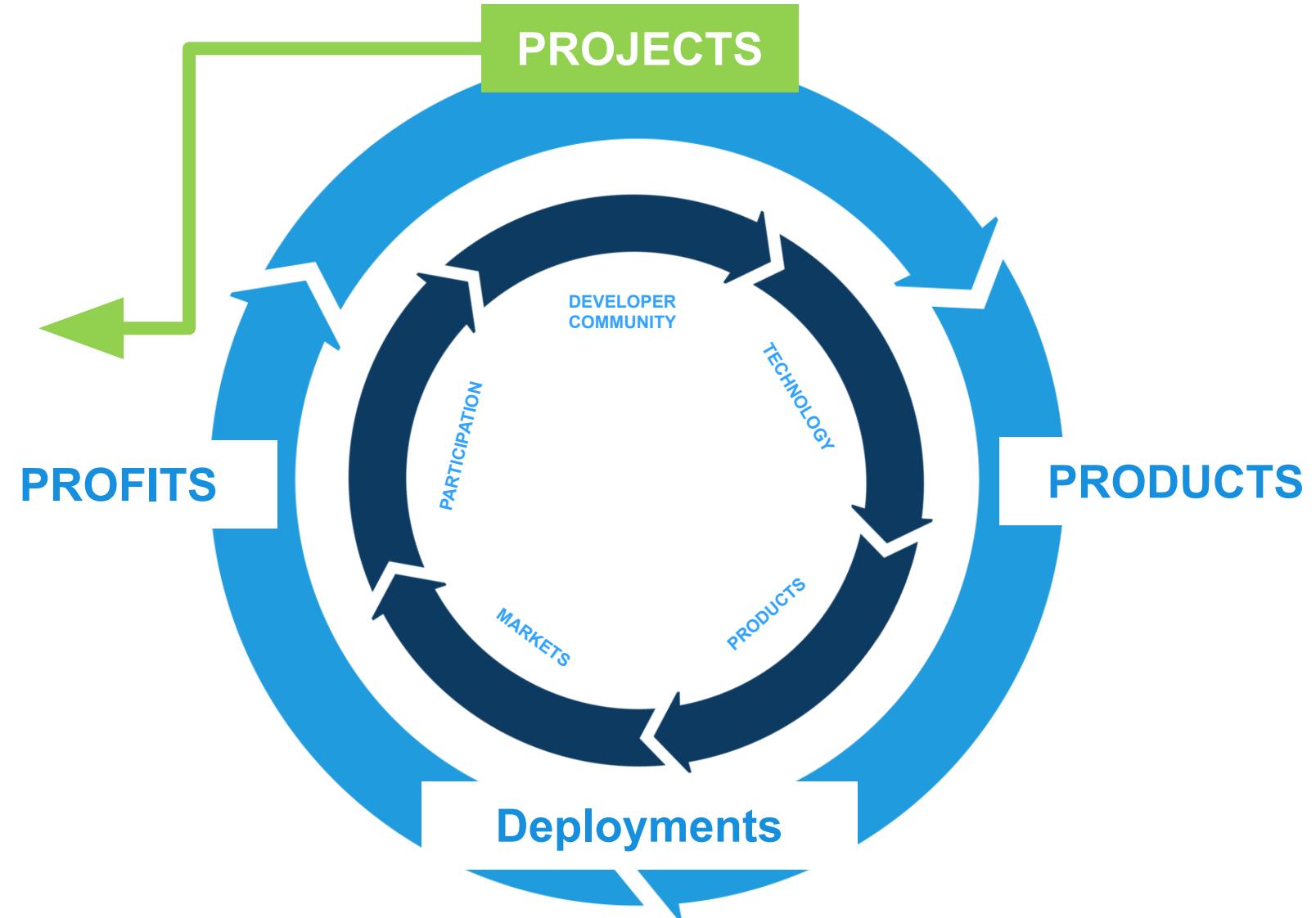
“You are either at the table or on the table.”

-Anonymous Executive



Open Source Journey – First Came Projects

Successful Open Source Development depends on the complete life cycle of projects, products that market will adopt and deploy



Our Role Has Been Recognized Alongside Tech Titans

- › "This category looks at those companies, associations and projects that have inspired development and IT shops to build upon the work they have created, and recognizes them for their leadership as we begin to create a digital world we only could have dreamed about a generation ago.
- › SD Times Influencers: Apple, Facebook, Google, IBM, Intel, Microsoft, GitHub, Netflix, Red Hat, Slack, *The Linux Foundation*

In 2019, The Linux Foundation is the Only Non-Profit Recognized For Three Consecutive Years For Its Critical Role in the Industry



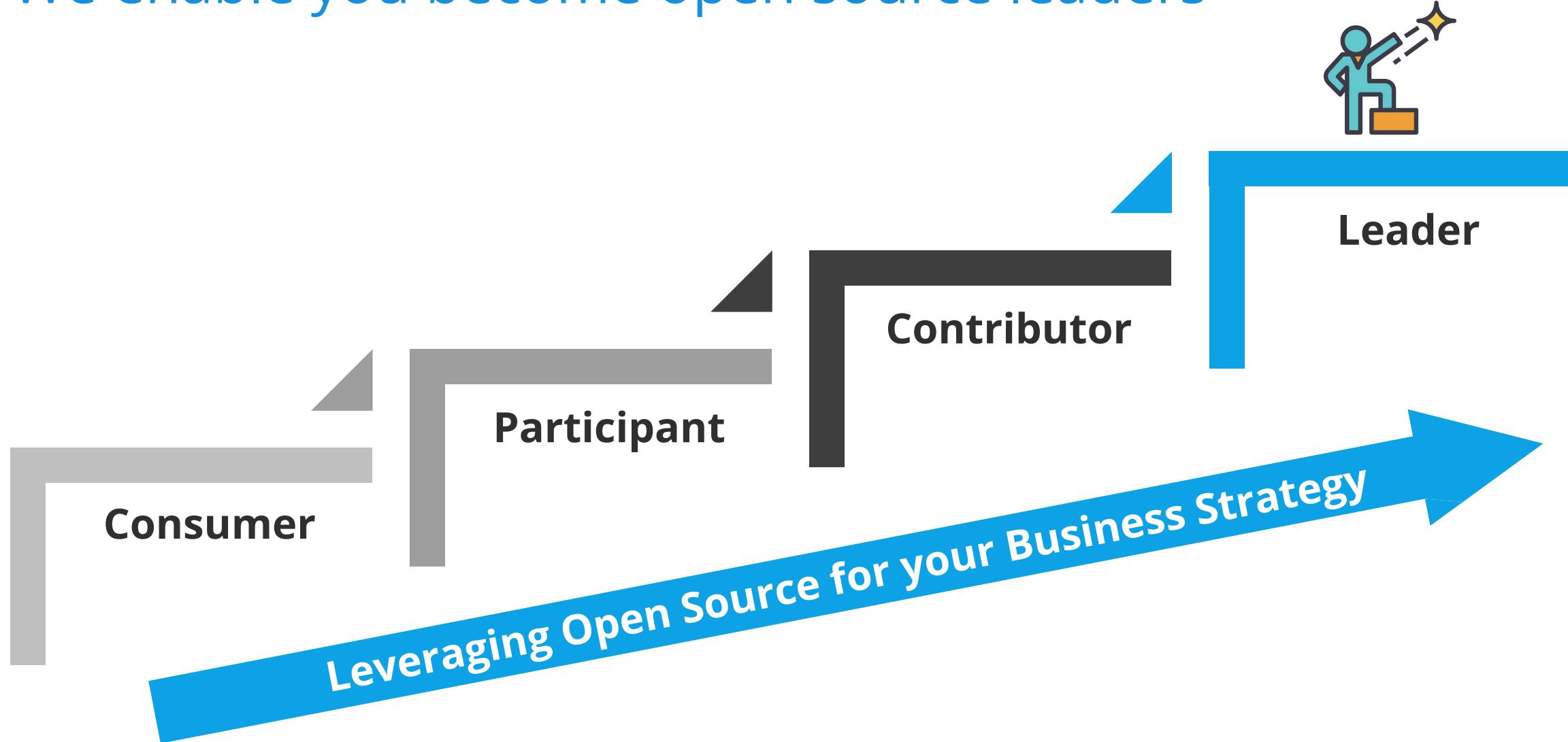
The Linux Foundation Platform assists projects in 5 key areas

Governance and Membership	<ul style="list-style-type: none">• Project technical governance, policies, etc.• Ongoing business development and membership recruitment• Membership management
Development Methodology and Processes	<ul style="list-style-type: none">• Technical decision making• Project life cycle• Release processes
Infrastructure	<ul style="list-style-type: none">• CI/CD infrastructure using open source best practices• Release engineering, DevOps• Security and reliability
Ecosystem Development	<ul style="list-style-type: none">• Evangelism, marketing and outreach initiatives• Events bringing developers, users and solution providers together• Training for developers and administrators, establishing professional certifications
IP and Assets Management	<ul style="list-style-type: none">• Code provenance• Trademark management• IP Policy, license scanning, IP defenseas

Building large, sustainable ecosystems require collective resources



We enable you become open source leaders



We help you navigate open source

Our services help companies manage open source strategically.



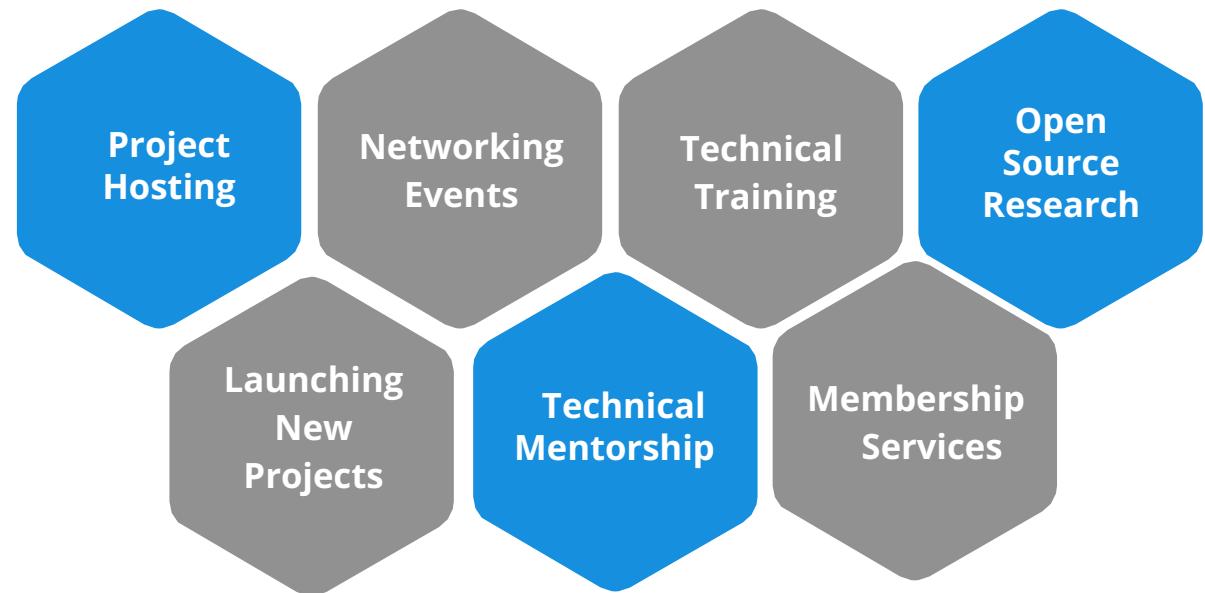
We host the world's most important projects.



Our events are the place where top developers and users of open source meet.



Our training programs meet the demand for OSS skills from the source.



Who is LF AI & Data?

The LF AI & Data is a global not for profit foundation that hosts critical components of the global AI & Data technology infrastructure. It brings together the world's top developers, end users, and vendors to identify and contribute to the projects and initiatives that address industry challenges for the benefit of all participants.



LF AI & Data 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

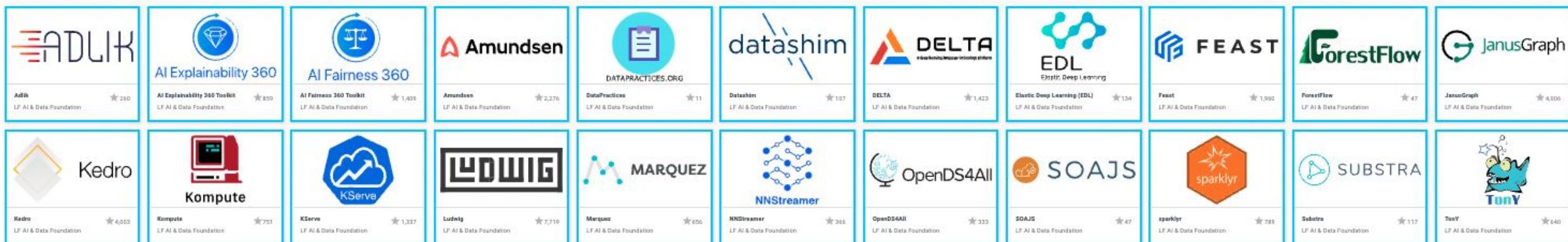


LF AI & Data Hosts Leading Open Source AI & Data projects

Graduated LF AI & Data Projects (9)



Incubating LF AI & Data Projects (22)



Sandbox LF AI & Data Projects (5)



Industry Leaders Host Their Projects in LF AI & Data



FACEBOOK



Herron Tech



Microsoft



QUANTUMBLACK
A MCKINSEY COMPANY

R Studio



Tech Mahindra

Tencent 腾讯

ETL

Uber

wework

ZILLIZ

ZTE

DataOps

DataOps is a set of practices that aims to deliver trusted and business-ready data to accelerate the journey to build AI-powered applications.

The goal of the DataOps Committee in LF AI & Data is to share best practices, and bring technology awareness around DataOps across industries and enable collaboration across LF AI & Data member companies, projects, and external participants leading to increased innovation. We aim to be an inclusive and open community to develop, collaborate, and contribute to DataOps practices and related open-source projects.



BI & AI

After many years of development and evolution, BI is now a pretty mature area that most modern corporations embrace and has a long history to help human to understand data in an intuited way.

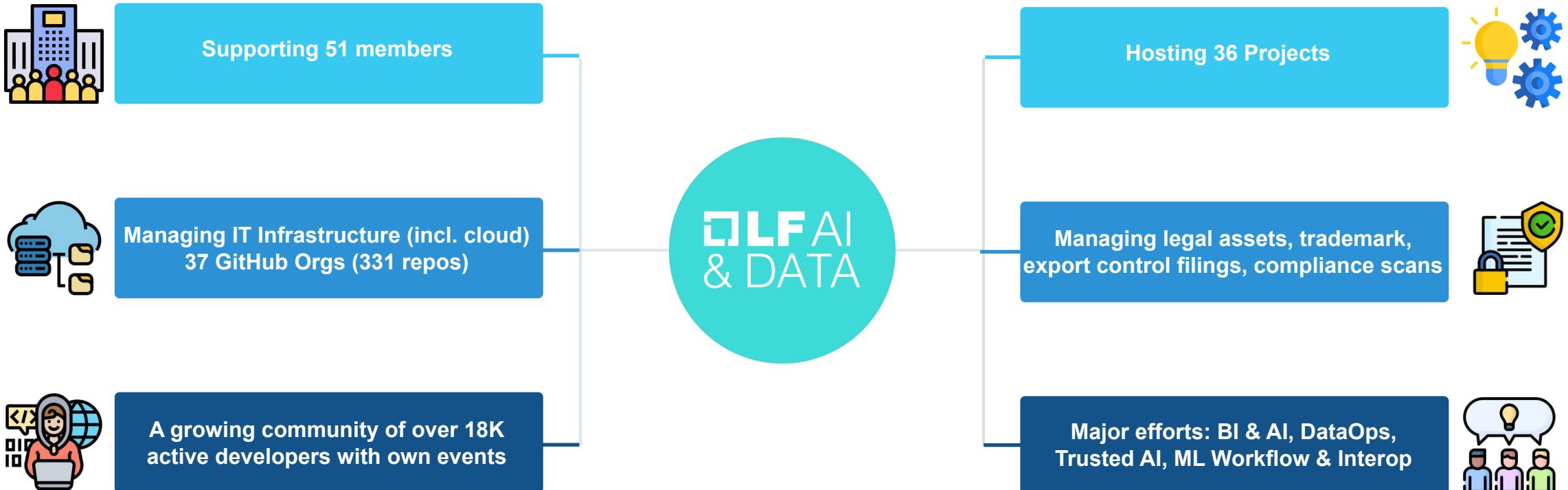
The goal of this committee is to integrate the power of AI and BI to make it CI (Cognitive Intelligence) by combining the speed machines accelerate (AI) with the direction intuited by human insight (BI).

Trusted AI

Trust and responsibility should be core principles of AI. We encourage you to infuse these guiding principles and technologies for trust and transparency into your AI project.

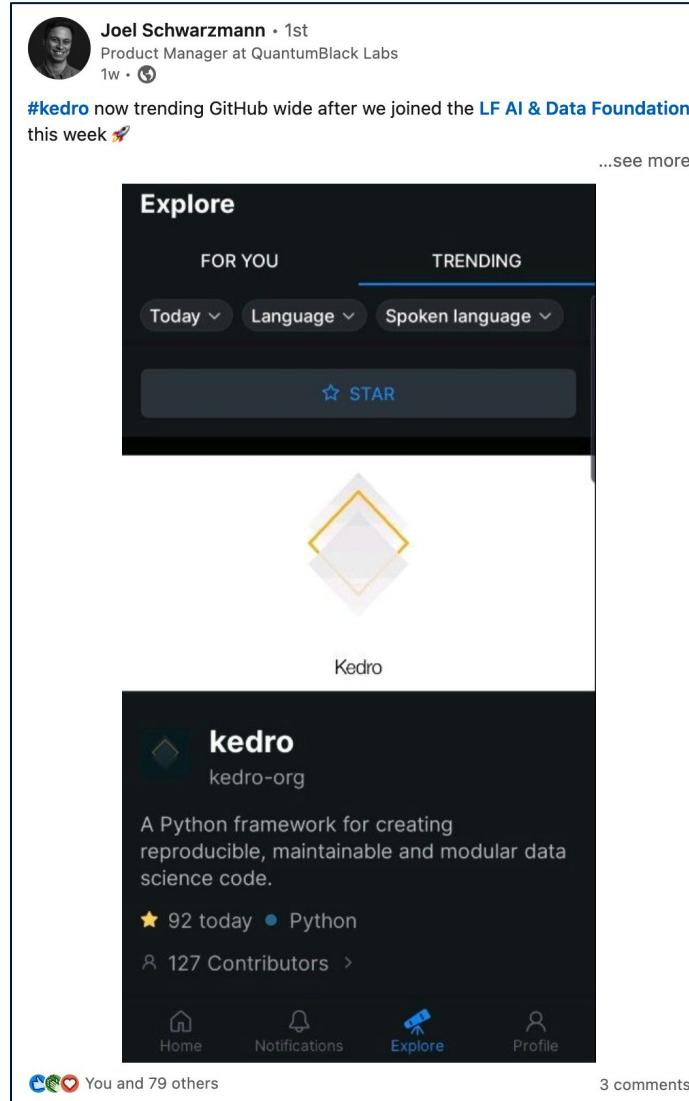
The LF AI & Data Trusted AI Committee is a global group working on policies, guidelines, tools and use cases by industry to ensure the development of trustworthy AI systems and processes to develop them continue to improve over time.

LF AI & Data has Unprecedented Momentum



Adding one new project and one new member a month for the past 24 months

Kedro trending on GH after joining LF AI & Data



LF AI & Data Structure and Governance

Foundation Governance

(Funding effort)



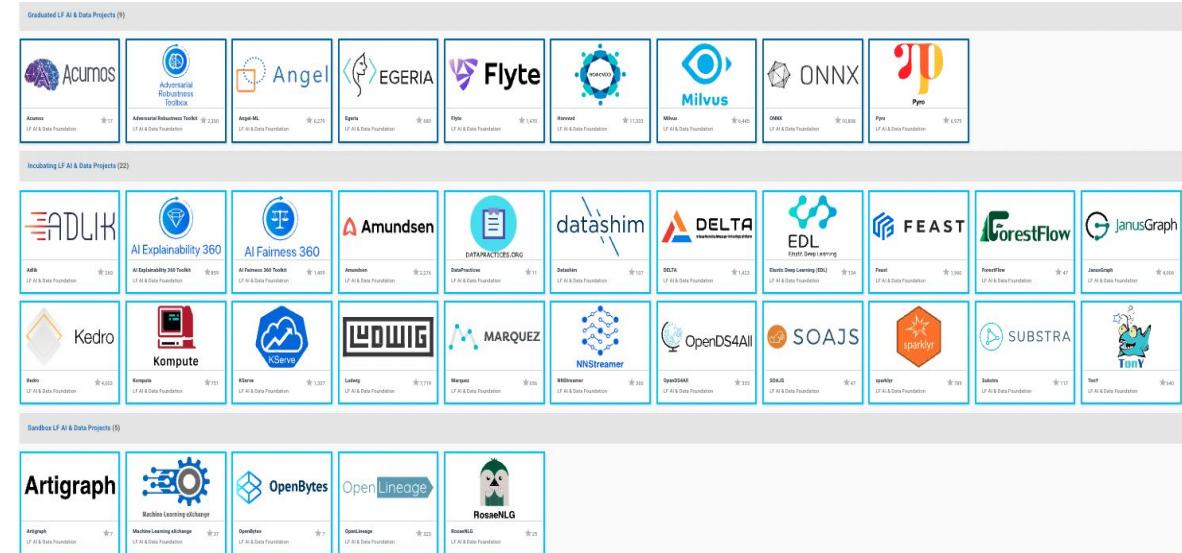
Outreach	Legal
Strategy	Budget

Technical Coordination

Technical Advisory Council

ML Workflow & Interop	Trusted AI
BI & AI	DataOps

Hosted Projects



LF AI & Data Members

 AI for people AI for People AI For People	 aivancity PARIS-CACHAN Aivancity School for Technology, Business & Society Paris-Cachan aivancity school for Technology, Business & Society	 AMBIANIC Ambianic.ai Ambianic	 Baidu 百度 Baidu Online Network Technology (Beijing) Co., Ltd Baidu	 BANQUE DE FRANCE EUROSYSTÈME Banque de France Banque de France	 4Paradigm 第四范式 Beijing Fourth Paradigm Intelligent Technology Co., Ltd. Paradigm4, inc.	 BROADCOM Broadcom Corporation Broadcom	 CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY Chaitanya Bharathi Institute Of Technology Chaitanya Bharathi Institute of Technology	 CLOUDERA Cloudera, Inc. MCap: \$4.6B Cloudera	 databricks Databricks Inc. Funding: \$1.9B Databricks
 DiDi DiDi USA Funding: \$28.2B	 ERICSSON Ericsson Ericsson	 GALGOTIAS UNIVERSITY Galgotias University Galgotias University	 GRAVITI GRAVITI TECHNOLOGIES INC Graviti	 GSI TECHNOLOGY GSI Technology GSI	 oppo Guangdong OPPO Mobile Telecommunications Corp., Ltd. Oppo	 Herron Tech Herron Tech Herron Tech	 High School Technology Services High School Technical Services	 HUAWEI Huawei Technologies Co., Ltd Huawei Technologies	 index analytics Index Analytics Index Analytics
 ING ING Group	 IBM International Business Machines Corporation IBM	 The International Society of Service Innovation Professionals ISSIP International Society of Service Innovation Professionals	 RICE KEN KENNEDY INSTITUTE Ken Kennedy Institute Ken Kennedy Institute	 MAIEI Montreal AI Ethics Institute Montreal AI Ethics Institute	 NYU New York University New York University	 NOKIA Nokia Corporation Nokia	 OpenAI 新一代人工智能开源开放平台 OpenAI OpenAI	 OpenUK OpenUK OpenUK	 PennState Great Valley Penn State Great Valley - The Pennsylvania State University Penn State University
 PSIT <u>Kanpur</u> Praveen Singh Institute Of Technology Praveen Singh Institute Of Technology	 precisely Precisely Holdings, LLC Funding: \$2.2M Precisely	 QuantUniversity, LLC QuantUniversity Funding: \$150K Quantitative Insights	 Red Hat Red Hat, Inc. MCap: \$127.9B Red Hat	 R Studio RStudio PBC RStudio	 SAHYADRI COLLEGE OF ENGINEERING & MANAGEMENT Sahyadri College of Engineering & Management Sahyadri College of Engineering and Management	 sas SAS Institute Inc. SAS	 shopen Shanghai OpenSource Information Technology Association Shanghai OpenSource Information Technology Association	 Tencent Tencent Holdings Limited MCap: \$724.1B Tencent	 EI11 The Institute for Ethical AI & Machine Learning The Institute for Ethical AI & Machine Learning
 Union.ai Union.ai Funding: \$10M	 UNIVERSITY of WASHINGTON University of Washington Funding: \$87.5M University of Washington	 Université Libre de Tunis Université Libre de Tunis Université Libre de Tunis	 vmware VMware, Inc. MCap: \$64.7B VMware	 XENONSTACK XenonStack Inc. XenonStack	 XPRIZE XPRIZE Funding: \$1.8M	 ZILLIZ Zilliz Zilliz	 ZTE ZTE Corporation MCap: \$22.2B		

Why host your open source project with LF AI & Data?

info@lfaifoundation.org

NEUTRAL HOSTING	DEDICATED STAFF	TRAINING & CERTIFICATION
A neutral home for an open source project increases the willingness of developers from enterprise software companies, start-ups, and independent developers to collaborate, contribute, and become committers.	Access to full-time staff (Executive Director, Program Manager, Project Coordinator) that cultivate the maturity and increased adoption of open source AI and Data projects.	We build training classes and have the ability via our parent organization, The Linux Foundation, to execute and launch certification programs in support of hosted projects.
DEV FOCUSED OPERATION	MENTORSHIP	MARKETING SERVICES
IT infrastructure, release management, IT ops, IT support, security audits, plus a host of supporting tools (slack, zoom, snyk, FOSSA, LastPass, etc.).	Members of the LF AI & Data Technical Advisory Committee and leaders of Graduated projects are available to support and mentor new projects.	A wide range of marketing services designed to assist with the awareness of the project, increase project adoption, and increase contributors.
DESIGN & AESTHETICS	PROGRAM MANAGEMENT	LFX PLATFORM EXPERIENCE
Graphic design resources provided by our in-house design team. When new projects enter the foundation, they receive a new logo, website or website refresh if they wish, or enhancements to their existing aesthetic. Services include conference signages and similar.	LF AI & Data, our parent org The Linux Foundation, and our sibling projects combined have years of experience in providing program management services for open source projects. We collaborate on best practices which we bring to LF AI & Data hosted projects.	A set of integrated tools for project Insights, security, EasyCLA, mentorship, crowdfunding, community events, member engagement, and much more. LFX is a Linux Foundation product developed in support of hosted projects.
LEGAL SERVICES		
		Legal services keep a project healthy and in compliance with licensing requirements, IP regimes, and industry norms. Specific services include: trademark management, compliance scans, export control filings, DCO and CLA integration with GH, etc.

Ecosystem Overview

Open source libraries, frameworks, platforms, tools, are a two-way street: they make AI accessible to everyone, and companies benefit from a community of other contributors helping accelerate open AI applied research.

The barrier to entry in AI is lower than ever before,
thanks to open source software.

Open Source offers *unique* benefits to AI & 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 AI model outcomes/decision recommendations, incl ranking & debating results and decision options

Lineage

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

Open Data

Data licensed under an open source data specific license making it freely available for use without mechanisms of control

Data Manipulation Tools

Tools to clean, sort, tagg, track provenance, etc., and a governance structure for doing these thing

A growing ecosystem

<https://l.lfaidata.foundation>



317 projects
2.3M+ GitHub Stars
450M+ LoC
45K+ developers

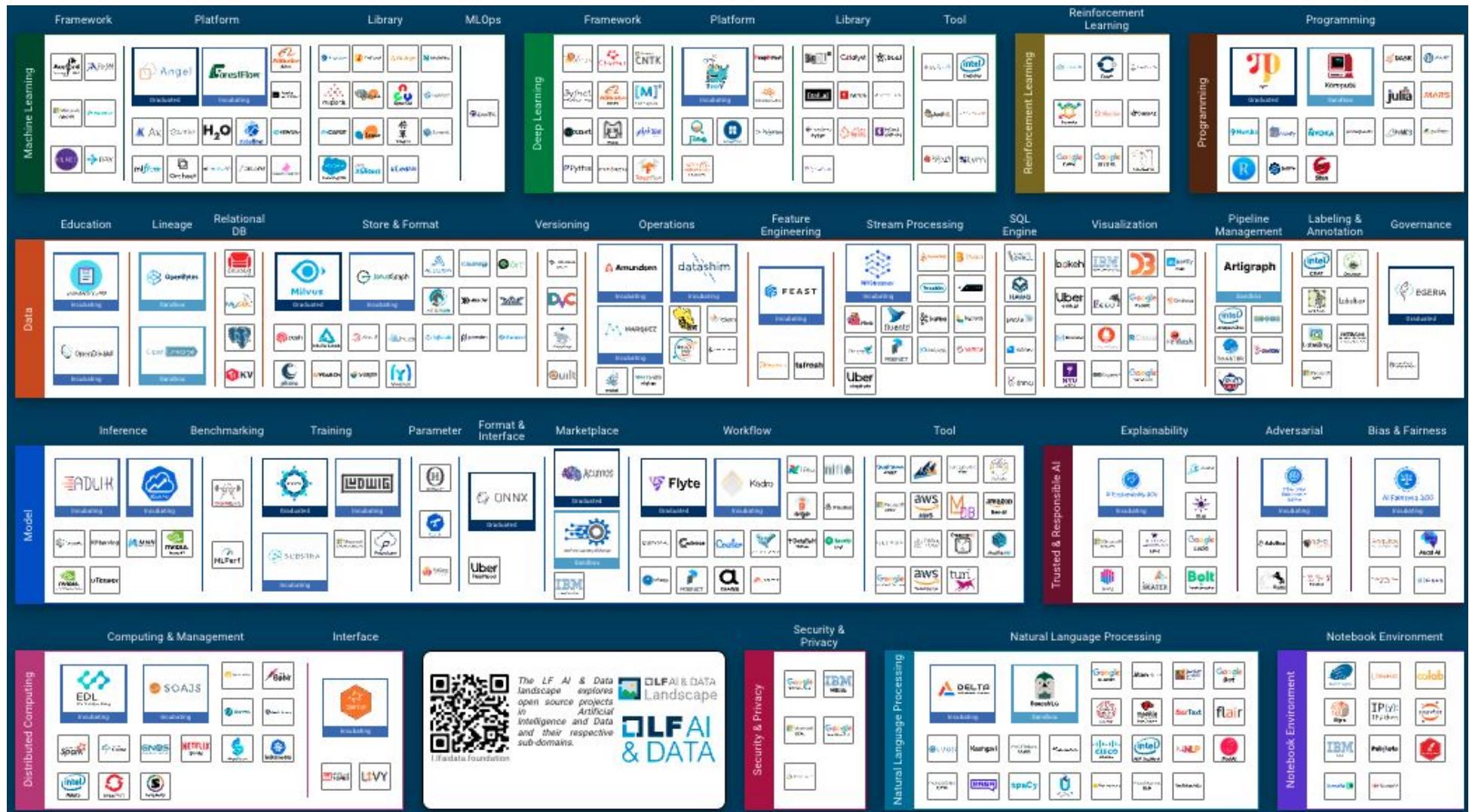
145+ founding orgs

10+ universities

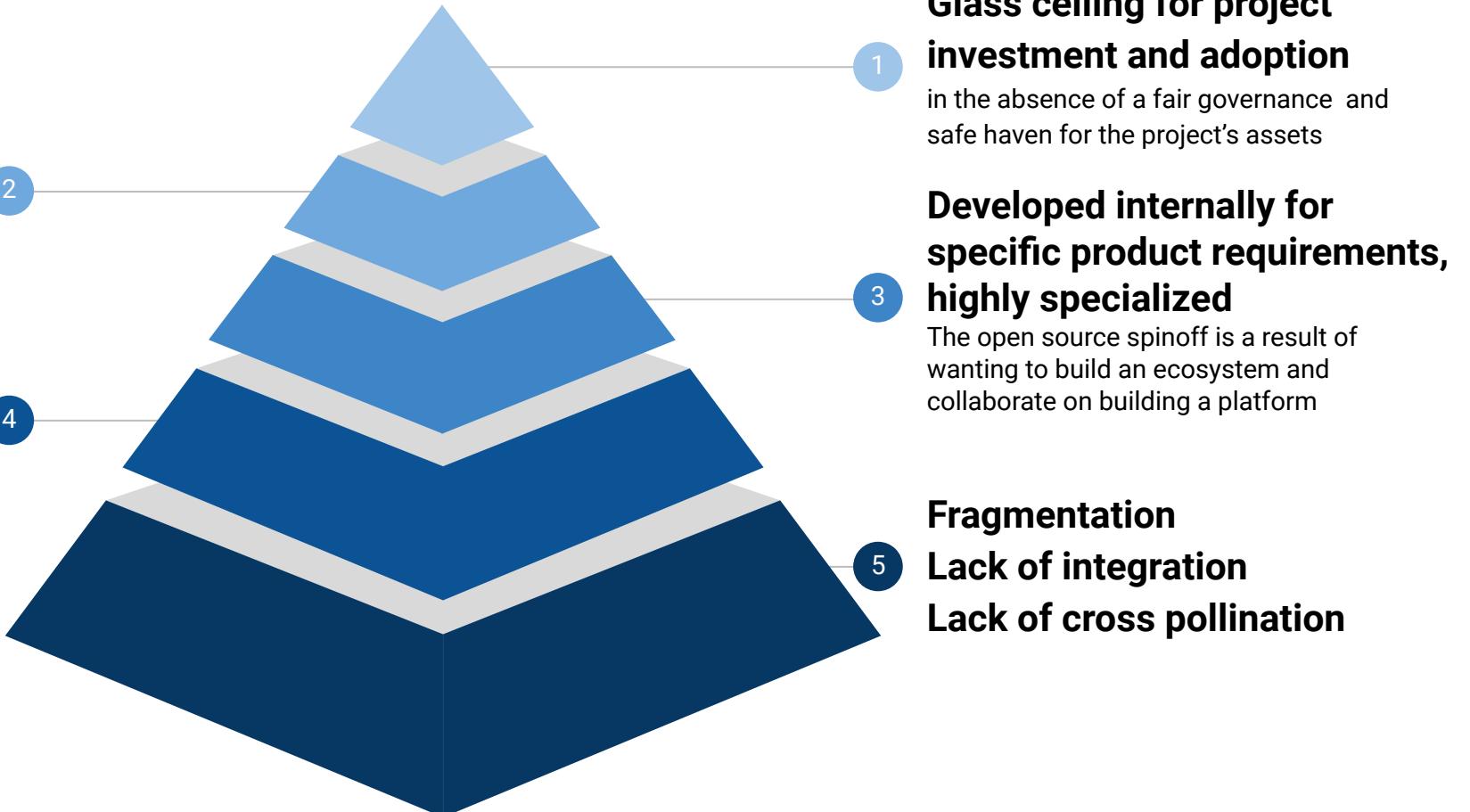
13 licenses

>450M LoC

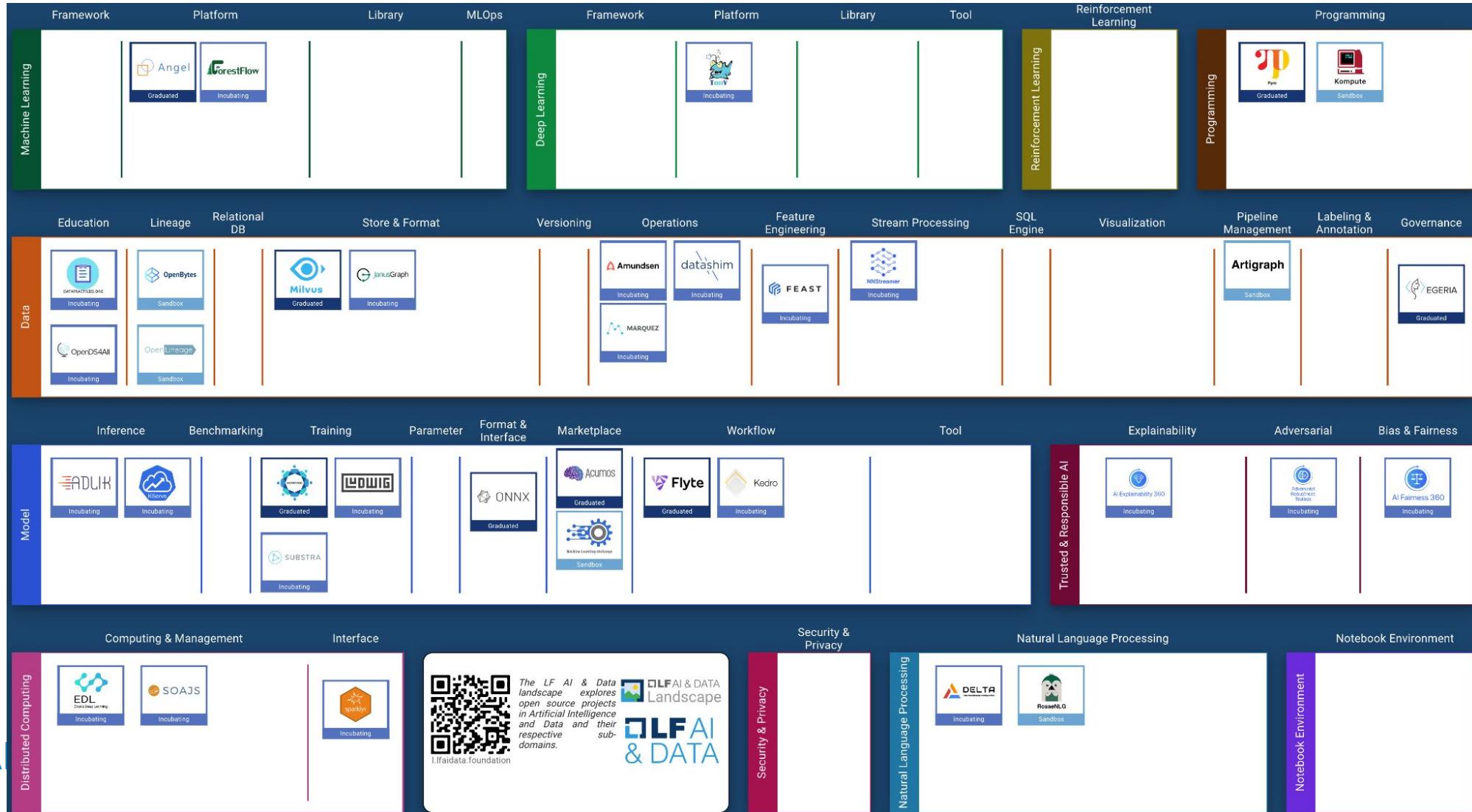
>1M new LoC weekly



But with challenges



Over 11% 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

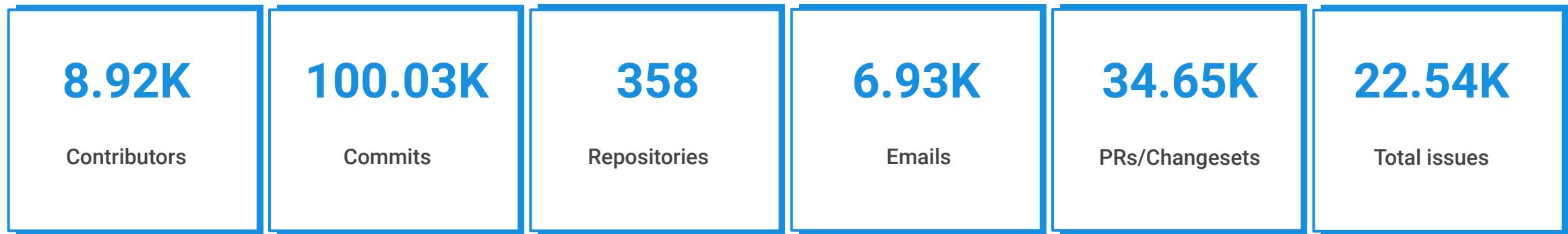


LF AI & Data Developer Community



Active and growing developer community

Jan 1- Dec 31, 2020



Double Digit Growth YoY

LF AI & Data Foundation

LF AI & Data Foundation drives Open Source Innovation in Artificial Intelligence, Machine Learning, Deep Learning, and Data

154.94K



Commits

311



Repositories

10.41M

Lines Of Code



11.17K



Emails



52.62K

Pull Requests / Changesets



0

Builds

12.11K



Messages



13.79K

Earned Media Mentions



30.67K

Total Issues



1.68K

Documents

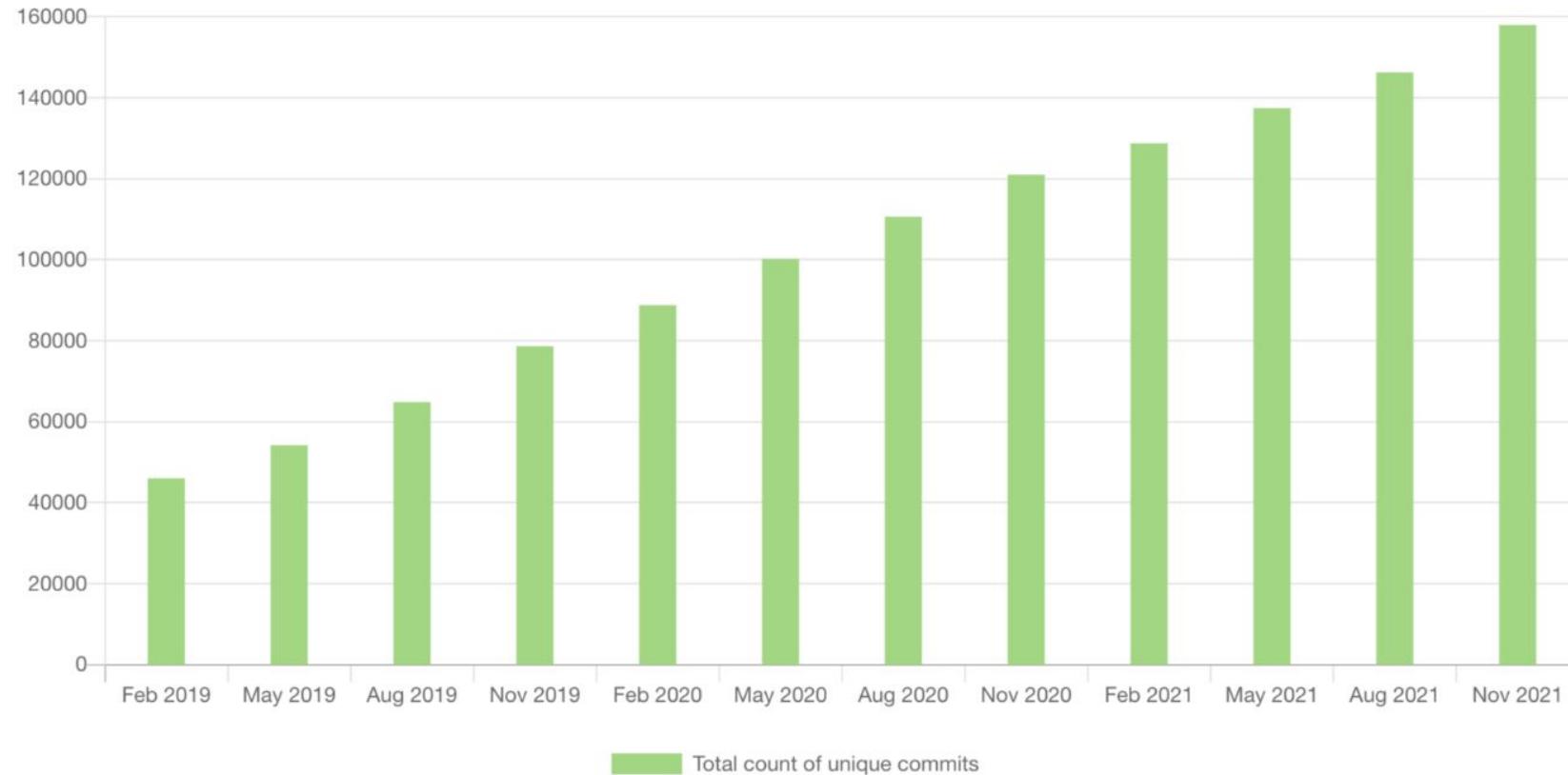


1.54M

Registry

Commits Growth

The growth in terms of the aggregated count of total number of unique commits during the selected time period.

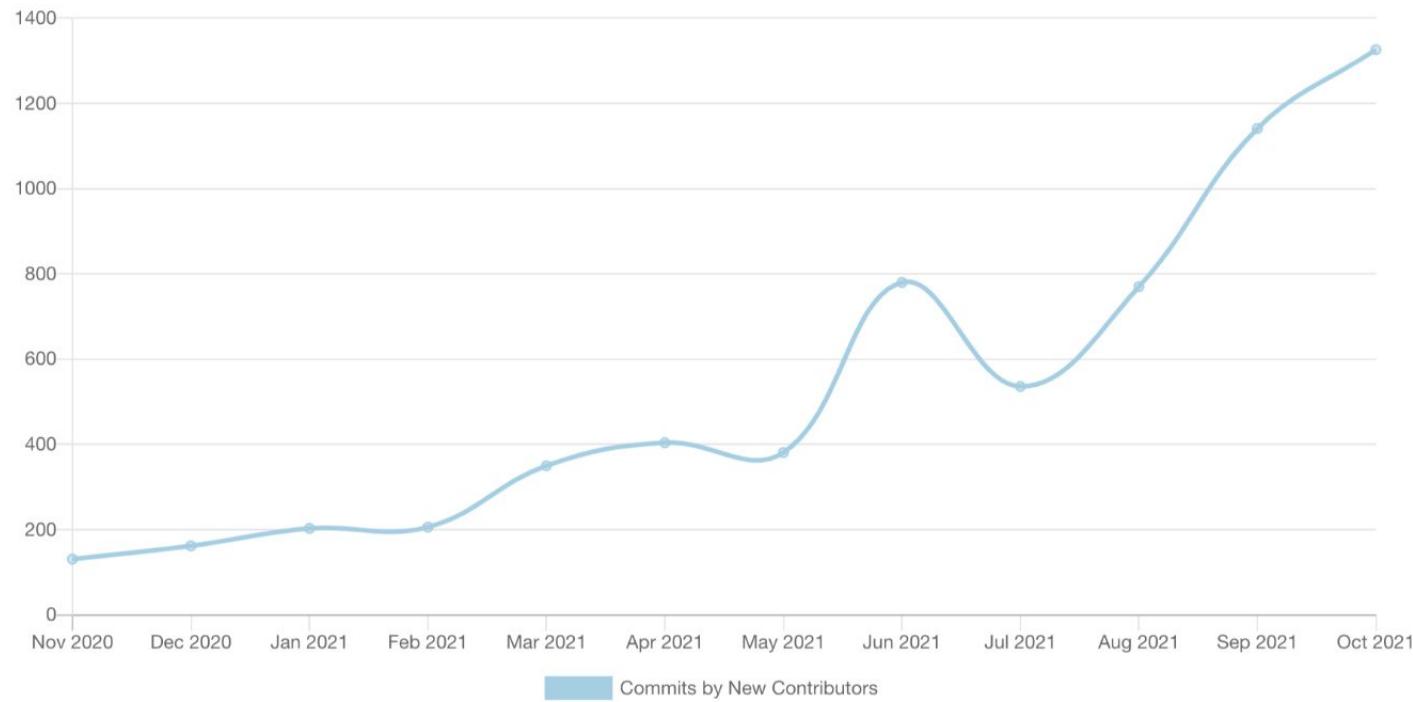


Key Insights

- There has been a **growth of 243.14%** in the total commits during the last 3 Years.
- An average of **102.91K** commits were pushed by active code contributors during the last 3 Years.

Commits by New Contributors

New contributors are defined as those who did their first commit during the selected time period.

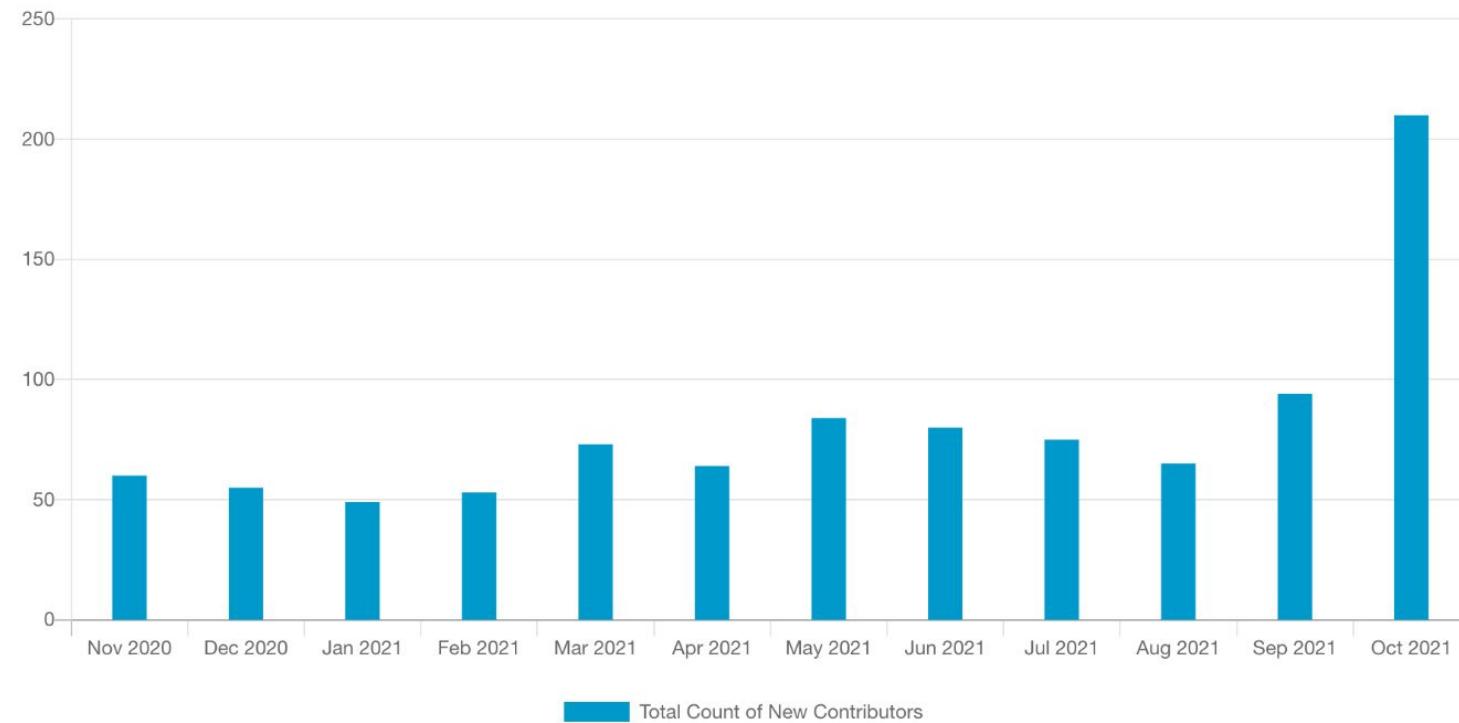


The commits by new contributors have **increased by 912.21%** during the last 1 Year.

New Contributor Growth

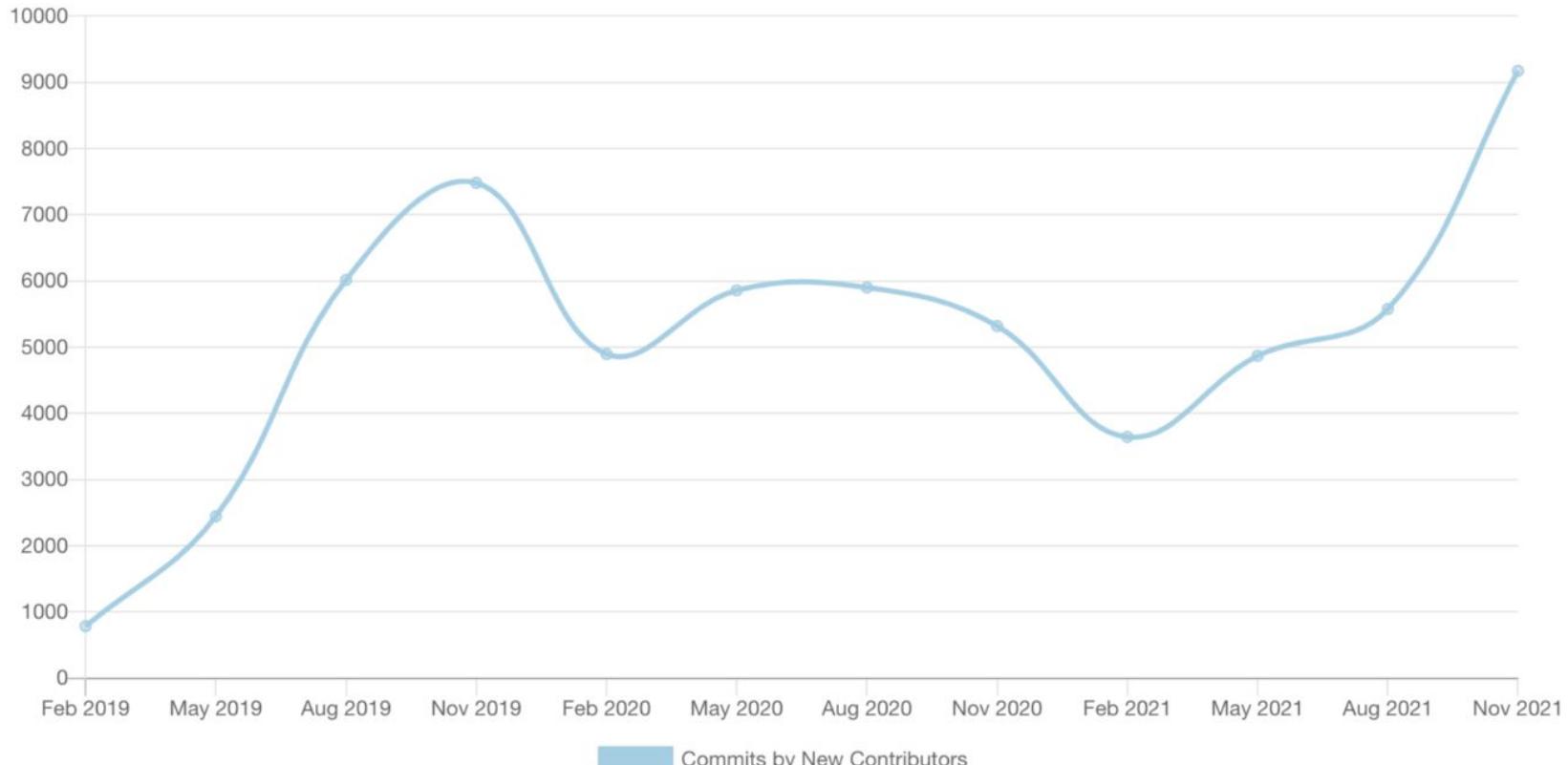
A new contributor is defined as someone who performed their first code activity during the selected time period.

The highest growth in the number of new contributors joining the project was seen between Sep 2021 - Oct 2021 during the last 1 Year.



Commits By New Contributors

The count of the total number of commits by new contributors. New contributors are defined as those who did their first commit during the selected time period.



Key Insights

- The commits by new contributors have **increased** by **1065.69%** during the last 3 Years.
- An average of **5.16K** commits were pushed by new contributors during the last 3 Years.

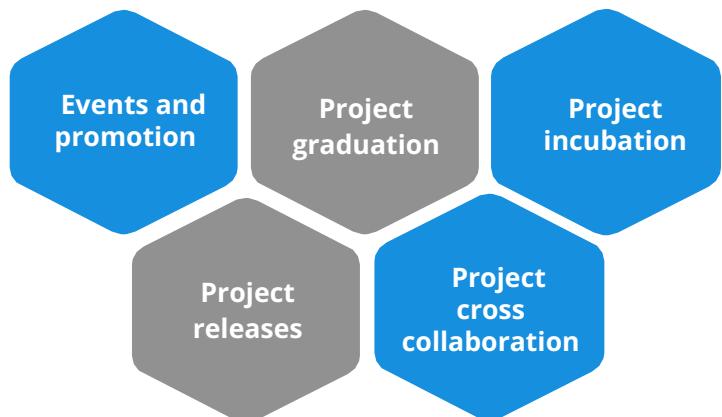
A total of 383 organizations participated in code commits during the last 3 years. This count excludes commits that were contributed by unaffiliated contributors.

Focused Developer & Community Marketing Effort



MarComm services to support community and ecosystem engagement

- › 37 announcements in 2019
- › 61 announcements in 2020
- › 45 announcements in 2021 (Jan - Sept)



Events and community ecosystem building services

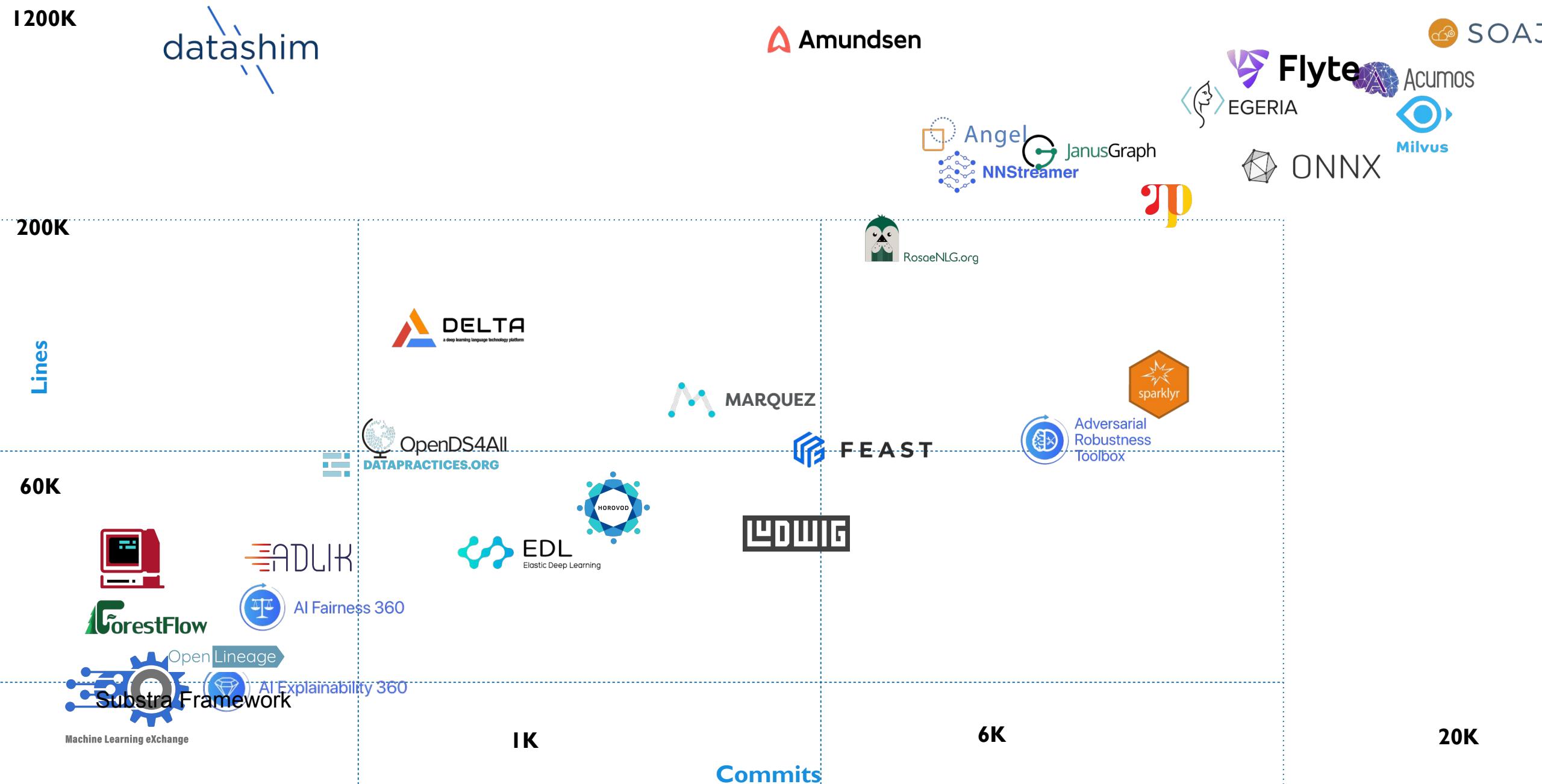
Community events

- › 6 in 2019
- › 8 in 2020
- › 6 in 2021

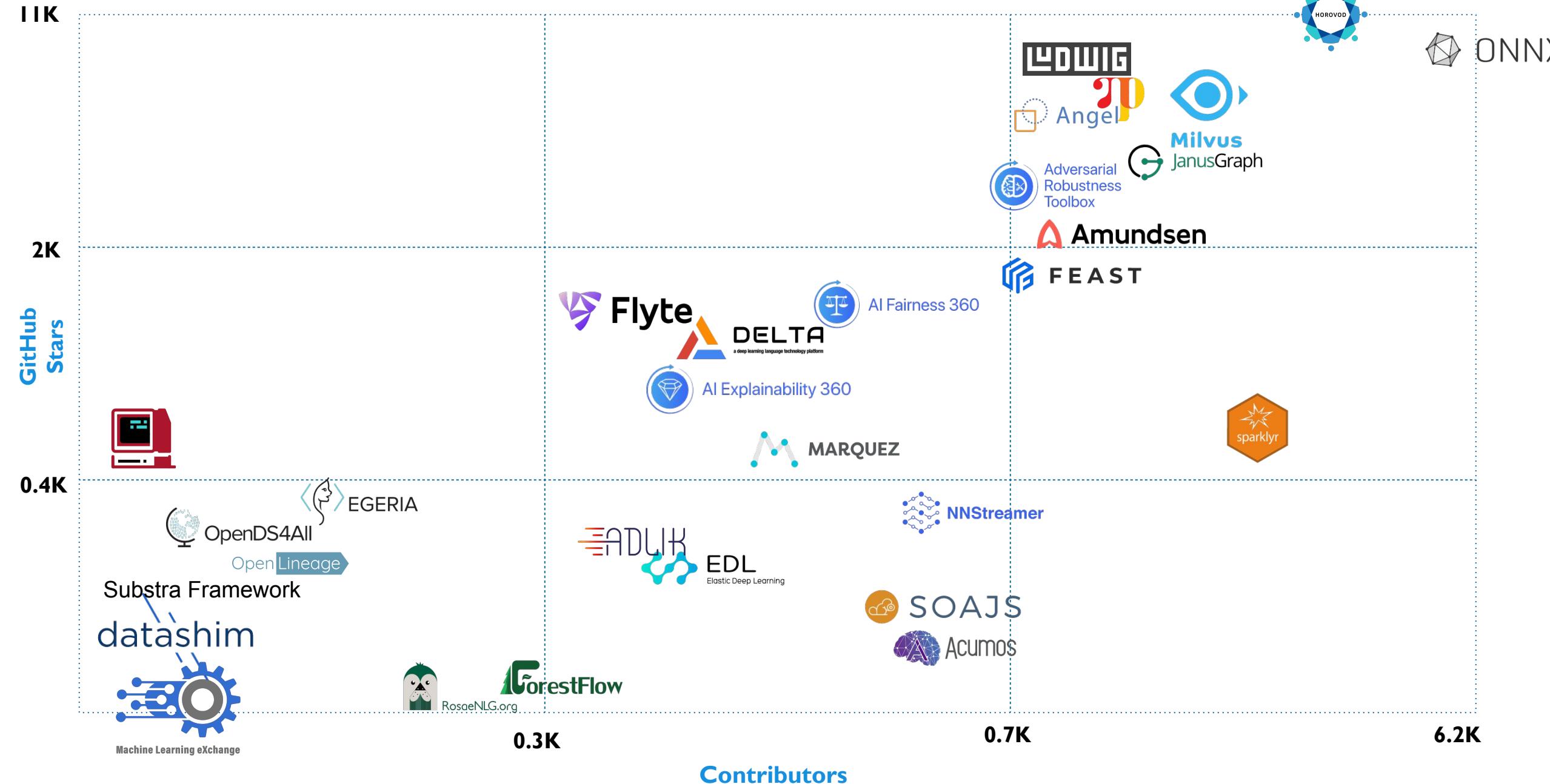
Major conferences

- › 3x LF AI & Data Summit (NA, EU, China)
- › AI Track at KubeCon, collab with CNCF
- › LF AI & Data Day (multiple/year)
- › Kubernetes + AI, collab with CNCF
- › AI Track, Open Networking & Edge Summit, collab with LF Edge

Data Coverage (June 7, 2021) - Line of Code and Commits



Data Coverage (June 7, 2021) - Stars and Contributors



LF AI & Data Membership Benefits

LF AI & Data is positioned to bolster cross-company collaboration and interoperability with our neutral IP zone, rich contributor programs, and most importantly, the trust end users place in us



Organizations join LF AI & Data to take an active role in supporting the growth and evolution of the Open Source AI & Data ecosystem

Support our mission, programs, and the community by helping fund services that hosted projects rely on

Demonstrate thought leadership by participating in a wide reaching networking and marketing programs

Be part of **defining and maintaining technologies** that are at the forefront of the industry

Host projects with us and benefit from the services & support we offer our hosted projects to increase their adoption and footprint in the ecosystem

Provide technical leadership to the community via the TAC, its various sub-committees and efforts

Receive greater insight into the foundation's strategy, efforts, projects and initiatives through increased engagement with the ED, staff and committees' leads

LF AI & Data Membership Benefits



Marketing
Amplification &
Brand Awareness



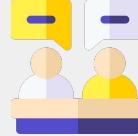
Community
Engagement



Thought & Tech
Leadership Across
Key Technologies

Marketing Amplification and Brand Awareness

Broaden your reach and awareness in the community with LF AI & Data marketing programs.
As a member you can participate in:



LF AI & Data Outreach Committee

Participate in the marketing committee monthly to engage with your peers in the cloud native space.



LF AI & Data Summit

LF AI & Data organizes its own community's open source developer summits focused on open source AI and Data technologies.



LF AI & Data Online Programs

Showcase your organization's open source technology by educating new and existing community members about best practices, trends, and new technologies



Public Relations & Analyst Relations Support

LF AI & Data supports members with analyst reports and research highlights.

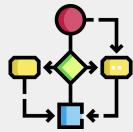


LF AI & Data Blog

Showcase your thought-leadership and industry commentary, as well as share technical walkthroughs for LF AI & Data projects here.

Community Engagement

LF AI & Data is a constellation of open source projects. Our members leverage many efforts to engage with our project's ecosystems and share their stories. As a member you can participate in:



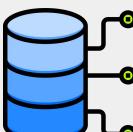
ML Workflow and Interoperability

Design a reference architecture for end-to-end ML Workflow and provide a reference implementation using hosted projects. facilitate integration and interop across projects.



Trusted AI

A global group working on policies, guidelines, tools and use cases by industry to ensure the development of trustworthy AI systems and processes to develop them continue to improve over time.



DataOps

Share best practices, and bring technology awareness around DataOps across industries and enable collaboration across LF AI & Data member companies, projects, and external participants leading to increased innovation.



BI & AI

Integrate the power of AI and BI to make it CI (Cognitive Intelligence) by combining the speed machines accelerate (AI) with the direction intuited by human insight (BI).



LF AI & Data Day

A 1-day event organized multiple times per year focused on specific technical projects and collaboration ongoing in LF AI & Data

Thought Leadership

Members of the LF AI & Data can network and help shape the open source AI and Data market.
As a member you can participate in:



Governing Board Participation

Participate in elections to serve on the Governing Board to oversee the vision of LF AI & Data and work with the TAC.



Technical Advisory Council Leadership

LF AI & Data TAC provides technical leadership to the open source AI and Data community, accepts projects into incubation, graduates projects and launches new efforts and collaborations.



Engagement with other Foundations and Industry Consortia

Participate in establishing collaborations with other umbrella foundations under the LF and broadly with other industry consortia organizations.



Interactive Landscape Placement

Our landscape is a comprehensive view of all open source AI and Data critical projects in the ecosystem. Anyone looking to adopt open source AI and Data projects comes here to review what technologies they should assess and adopt.

LF AI & Data Annual Dues

	Not Yet a Linux Foundation Member	Existing Linux Foundation Member
Premier Member	\$120,000	\$100,000
General Member	5,000 employees +: \$45,000 2,000 - 4,999: \$30,000 500 - 1,999: \$25,000 Up to 499 employees: \$10,000	5,000 employees +: \$25,000 2,000 - 4,999: \$15,000 500 - 1,999: \$10,000 Up to 499 employees: \$5,000
Associate Member	Free <small>Limited to academic and nonprofit institutions respectively and requires approval by the Governing Board</small>	

Premier Membership



Highest tier of membership – For organizations contributing heavily to open source AI and Data, and bringing their own projects to be hosted at the Foundation. They work in concert with the Foundation team members. These companies want to take the most active role in enabling the open source AI and Data ecosystem.

Premier members are eligible to:

(Enjoy all the benefits of General level, plus;)

- **Hold one (1) guaranteed seat** on the LF AI & Data Governing Board + one alternate (1) representative
- **Appoint one (1) voting representative in any subcommittees** or activities of the LF AI & Data Governing Board
- Receive greater **insight into LF AI & Data strategy and projects** through engagement with the LF AI & Data leadership team. Premier level members have the unique opportunity to **customize their experience** with LF AI & Data. The team will make themselves available to help achieve your strategic goals. We can help with guidance in open source contributions, new market creation, and/or open source project donation. **Have ideas? Just ask!**
- Enjoy most prominent placement in displays of membership including website, landscape and marketing materials.
- Create an individualized press release upon membership announcement with the LF AI PR team.

General Membership



Targeted for organizations that want to put their organization in full view in support of LF AI & Data and our mission. Organizations that join at the General level are deeply committed to using open source technology, helping LF AI & Data grow, voicing the opinions of their customers, and giving back to the community.

General members are eligible to:

- **Participate in elections** between **only other Gold members** to appoint one (1) representative to the **LF AI & Data Governing Board**. Three (3) total Gold representatives will be elected to represent all Gold members. Voice your opinions amongst the leaders in the industry and help determine the strategic direction of LF AI & Data.
- Receive **greater insight into LF AI & Data strategy and project roadmaps** through increased engagement with the LF AI & Data Executive Director and staff.
- Create an announcement upon membership announcement with the LF AI & Data PR team.
- Participate in all Marketing, Community, Thought Leadership opportunities.
- Opportunity to **host “LF AI & Data Day”**, including on-demand webinars and livestream.
- Receive **discounts** on LF AI & Data event sponsorships.
- Demonstrate your support for LF AI & Data by displaying your logo on the LF AI & Data website, landscape and in marketing materials.

Associate Membership



The Associate membership is a free complimentary membership limited to academic and non-profit institutions.

Associate members are eligible to:

- Participate in all Marketing, Community, and Thought Leadership opportunities.
- Identify your organization as a member and display your logo on the LF AI & Data website, landscape and in marketing materials.
- Feature your organization in the quarterly new members announcement.
- Receive discounts on LF AI & Data events' sponsorship.

Specific opportunities for associate members:

- › Practical experience working with open source foundations
- › Visibility into and within the ecosystem
- › Internships opportunities with commercial members
- › Collaboration opportunities
- › Publication opportunities based on R&D conducted with projects
- › Open source working experience for all participants
- › Access to LF AI & Data events

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 AI & 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 intra-project 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: BI & AI, DataOps, ML Workflow & Interop

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

Challenges and Trends

Join us and become a member!

Incubate your project

info@lfidata.foundation



DLF AI & DATA

Global Trends

- › Increased demand for open source talent [Linux Foundation Job Report](#)
- › Rise of Open Source Program Offices [TODO Group, The Evolution of OSPOs](#)
- › Higher emphasis on security [Open Source Security Foundation](#)
- › More focus on software supply chain [Linux Foundation Efforts](#)
- › Infusing AI/ML in products & services [LF AI & Data Foundation](#)
- › Increased focus on ethical AI [Trusted AI Committee](#)
- › Data management, governance & lineage [OpenBytes, OpenLineage, Egeria](#)

AI & Data Specific Challenges

- › Hiring talent
- › Computational power
- › Building trust
- › Solving the bias problem
- › Data privacy, security, governance
- › National policies, legislations
- › Reaching human level intelligence

Opportunities

- › Trusted and Responsible AI
- › Deriving value and insights in Data
- › AI & Edge Computing - The need for real-time decision making is pushing AI closer to the edge
- › Specialization in AI Chip Design
- › Efficient and smarter algorithms
- › Federated learning - a new approach to protect privacy while training AI with sensitive user data

LF AI & Data Project Maturities

Adopting the same project maturity levels as other LF umbrellas

