

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

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# 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



## CI/CD



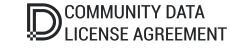
## Energy



## Hardware



## Standards



# Building large, sustainable ecosystems requires collective resources

**2000+**

Members From  
41 Countries



**100%**

of Fortune 100  
Tech & Telecom



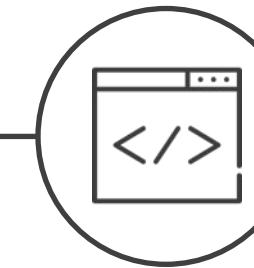
**242,960+**

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**

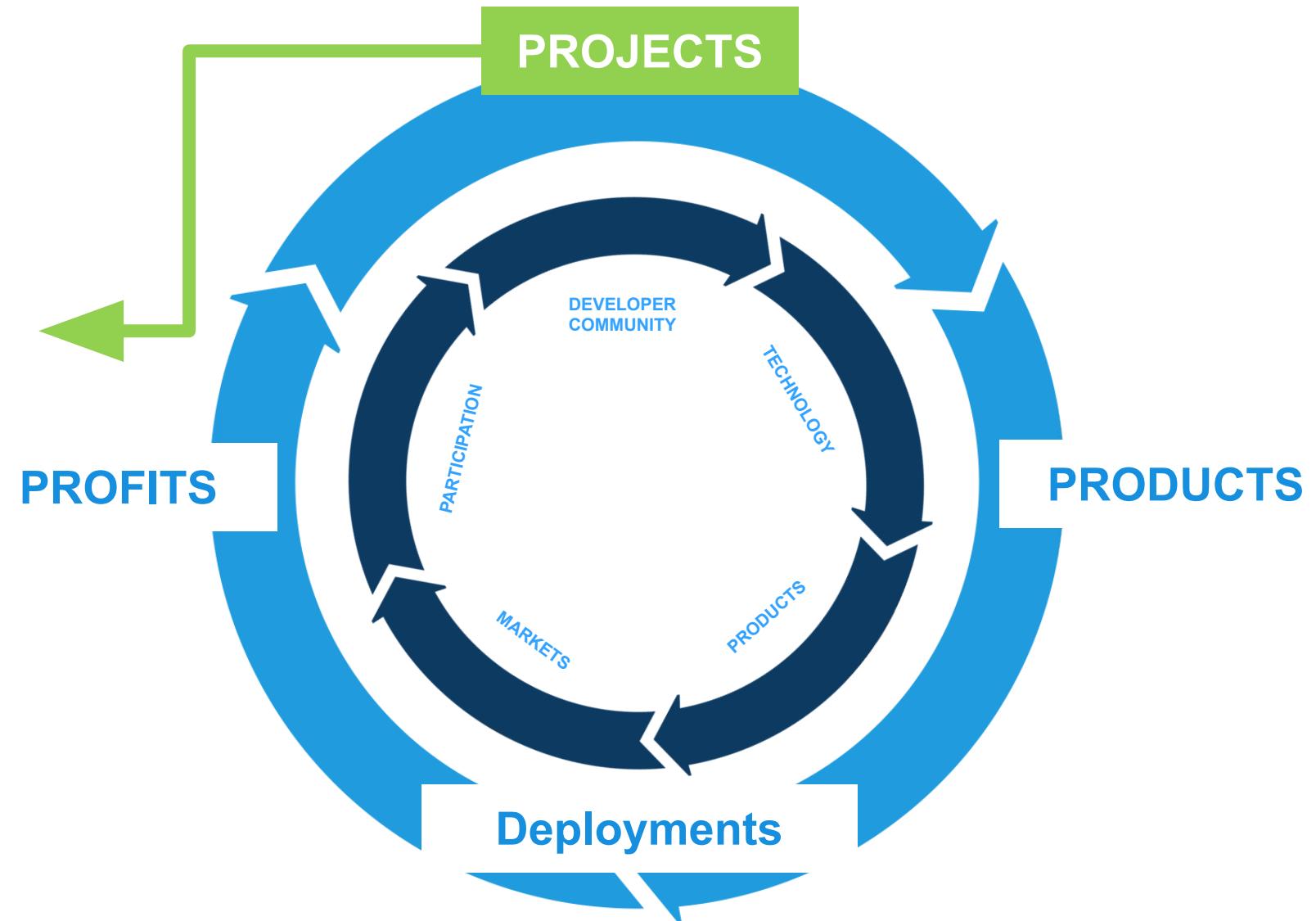
“You are either at the table or on the table.”

-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



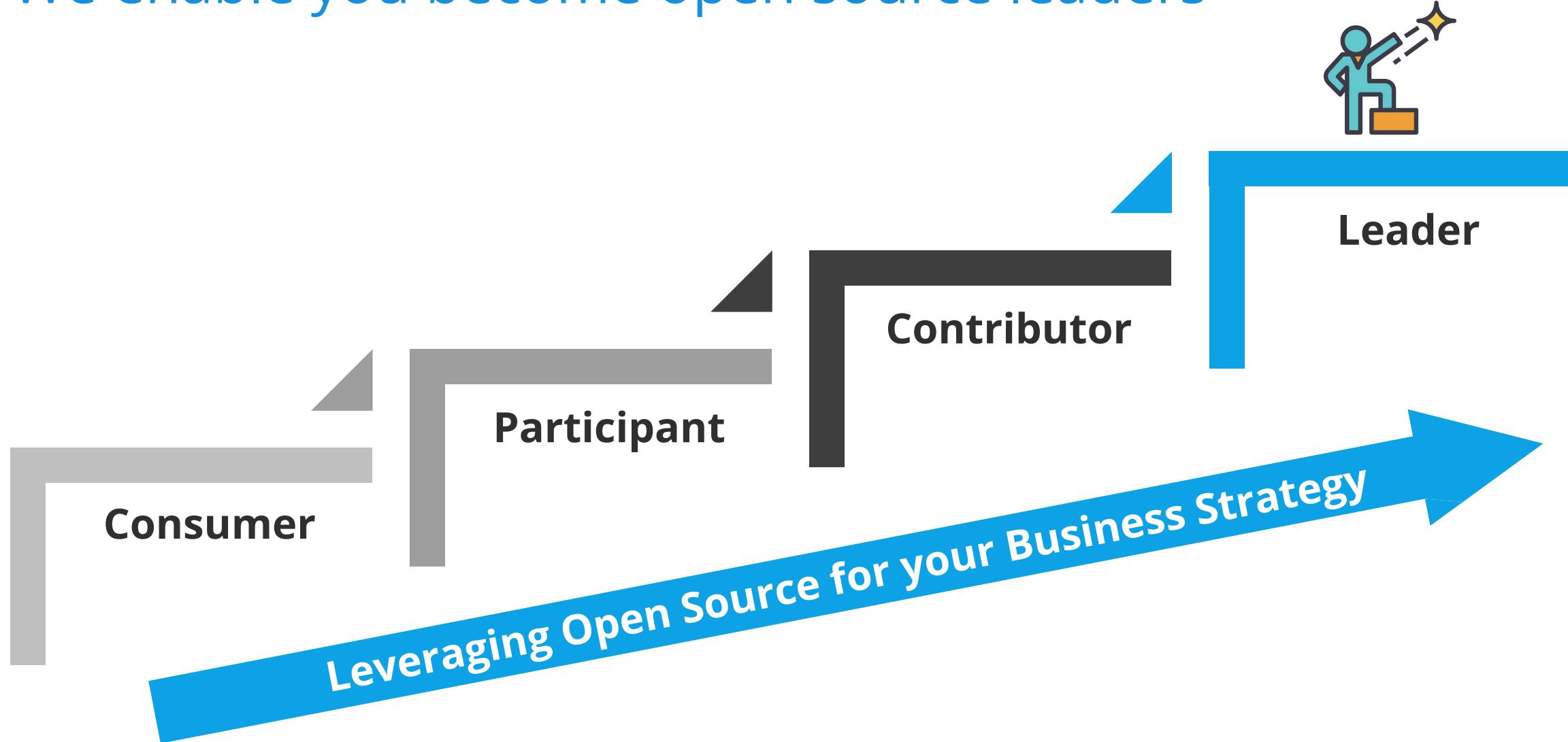
# The Linux Foundation Platform assists projects in 5 key areas

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

# 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.**



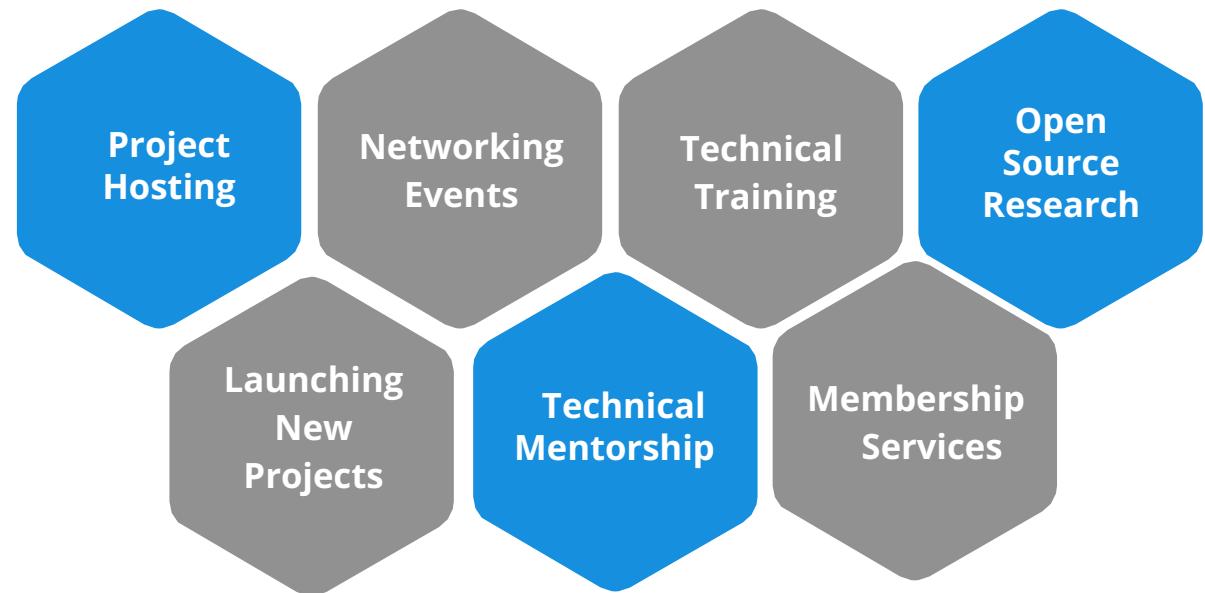
We host the world's most important projects.



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 (8)

**Acumos**  
Acumos  
LF AI & Data Foundation ★ 17

**Angel**  
Angel-ML  
LF AI & Data Foundation ★ 6,279

**EGERIA**  
Egeria  
LF AI & Data Foundation ★ 636

**Flyte**  
Flyte  
LF AI & Data Foundation ★ 1,470

**HOROVOD**  
Horovod  
LF AI & Data Foundation ★ 11,233

**Milvus**  
Milvus  
LF AI & Data Foundation ★ 6,445

**ONNX**  
ONNX  
LF AI & Data Foundation ★ 10,808

**Pyro**  
Pyro  
LF AI & Data Foundation ★ 6,975

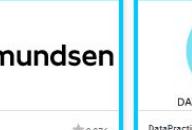
Incubating LF AI & Data Projects (22)

**ADLIK**  
Adlik  
LF AI & Data Foundation ★ 260

**Adversarial Robustness Toolkit**  
Adversarial Robustness Toolkit  
LF AI & Data Foundation ★ 2,000

**AI Explainability 360**  
AI Explainability 360 Toolkit  
LF AI & Data Foundation ★ 659

**AI Fairness 360**  
AI Fairness 360 Toolkit  
LF AI & Data Foundation ★ 1,409

**Amundsen**  
Amundsen  
LF AI & Data Foundation ★ 2,276

**DATAPRACTICES.ORG**  
DataPractices  
LF AI & Data Foundation ★ 11

**datab Shim**  
datab Shim  
LF AI & Data Foundation ★ 107

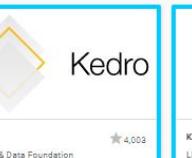
**DELTA**  
DELTA  
LF AI & Data Foundation ★ 1,423

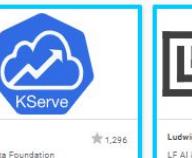
**EDL**  
Elastic Deep Learning (EDL)  
LF AI & Data Foundation ★ 124

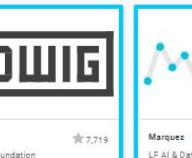
**FEAST**  
Feast  
LF AI & Data Foundation ★ 1,960

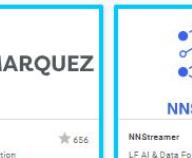
**ForestFlow**  
ForestFlow  
LF AI & Data Foundation ★ 47

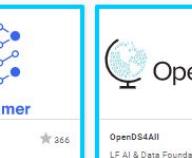
**JanusGraph**  
JanusGraph  
LF AI & Data Foundation ★ 4,006

**Kedro**  
Kedro  
LF AI & Data Foundation ★ 4,003

**KServe**  
KServe  
LF AI & Data Foundation ★ 1,296

**LUDWIG**  
Ludwig  
LF AI & Data Foundation ★ 7,719

**MARQUEZ**  
Marquez  
LF AI & Data Foundation ★ 656

**NNStreamer**  
NNStreamer  
LF AI & Data Foundation ★ 366

**OpenDS4All**  
OpenDS4All  
LF AI & Data Foundation ★ 323

**SOAJS**  
SOAJS  
LF AI & Data Foundation ★ 47

**sparklyr**  
sparklyr  
LF AI & Data Foundation ★ 789

**SUBSTRA**  
Substra  
LF AI & Data Foundation ★ 117

**TonY**  
TonY  
LF AI & Data Foundation ★ 640

Sandbox LF AI & Data Projects (5)

**Kompute**  
Kompute  
LF AI & Data Foundation ★ 693

**Machine Learning eXchange**  
Machine Learning eXchange  
LF AI & Data Foundation ★ 37

**OpenBytes**  
OpenBytes  
LF AI & Data Foundation ★ 7

**OpenLineage**  
OpenLineage  
LF AI & Data Foundation ★ 323

**RosaeNLG**  
RosaeNLG  
LF AI & Data Foundation ★ 25

# 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.*

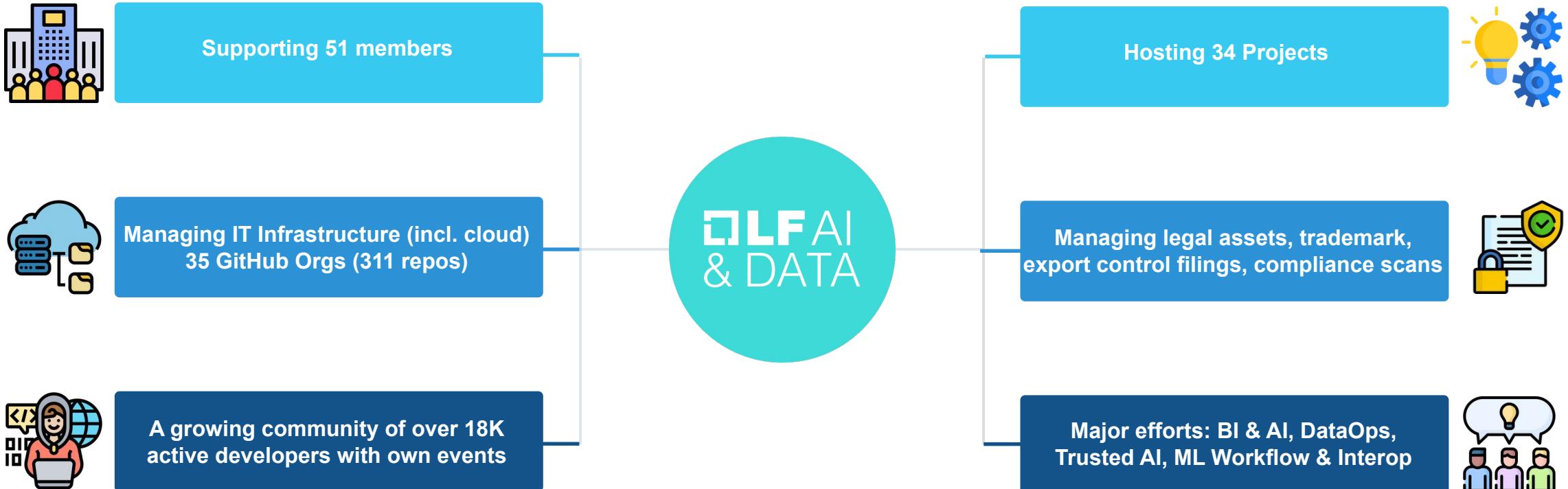
The goal of this committee is to integrate the power of AI and BI to make it CI (Cognitive Intelligence) by combining the speed machines accelerate (AI) with the direction intuited by human insight (BI).

# 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.

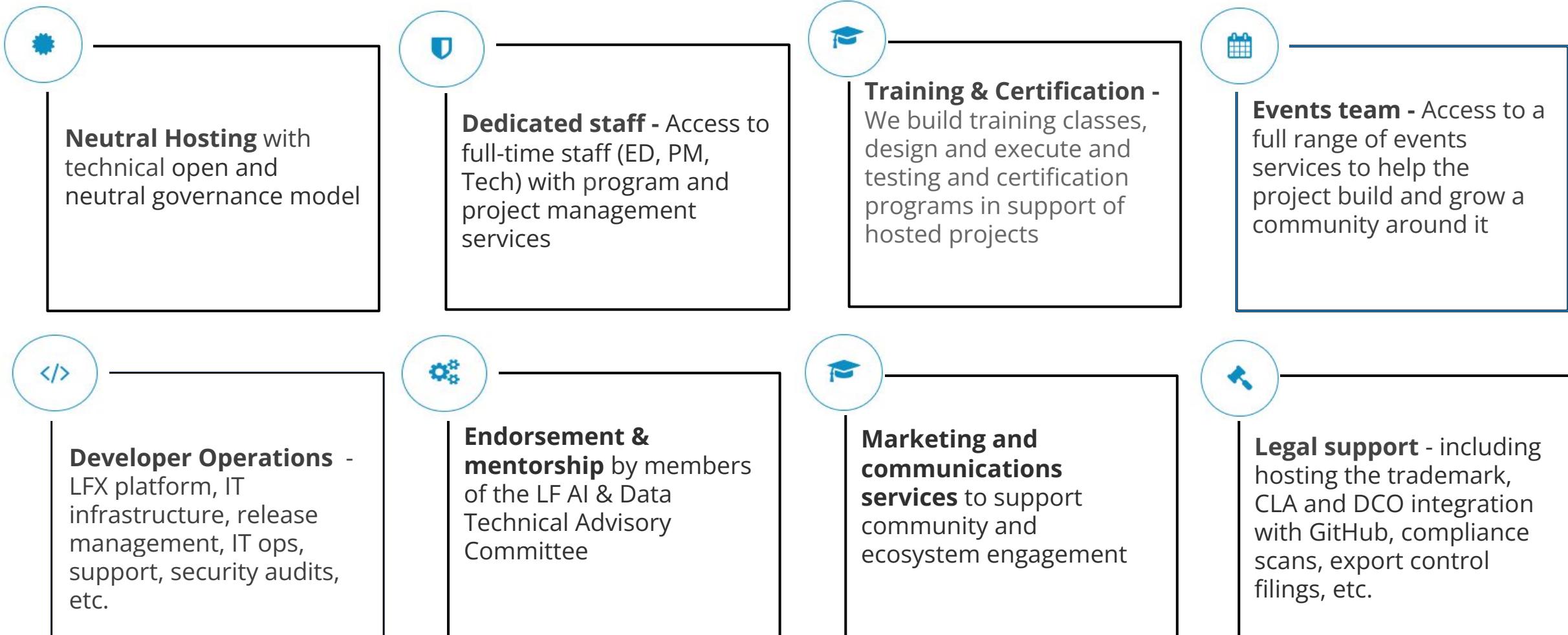
# LF AI & Data has Unprecedented Momentum



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

# Why incubate your project with LF AI & Data?

Building large, sustainable ecosystems requires collective resources



# LF AI & Data Structure and Governance

## Foundation Governance

(Funding effort)

### Governing Board

Outreach

Legal

Strategy

Budget

## Technical Coordination

### Technical Advisory Council

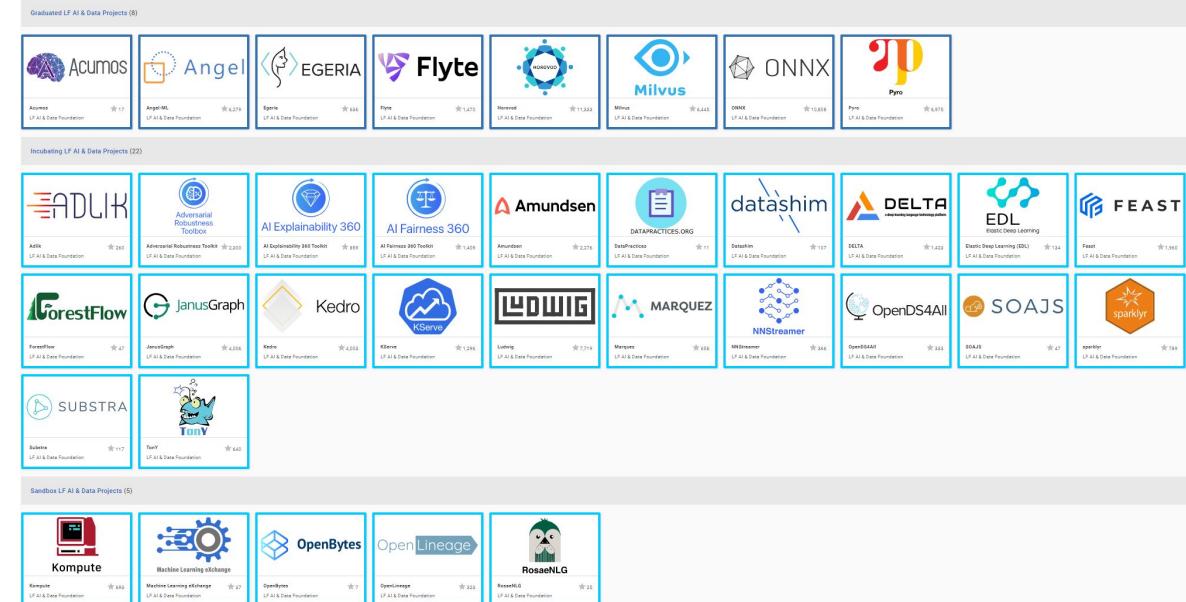
ML Workflow & Interop

Trusted AI

BI & AI

DataOps

## Hosted Projects



# LF AI & Data Members

 <b>AI for People</b> AI for People	 <b>aivancity</b> PARIS-CACHAN	 <b>AMBIANIC</b>	 <b>Baidu</b> 百度	 <b>BANQUE DE FRANCE</b> EUROSYSTÈME	 <b>BROADCOM</b>	 <b>CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY</b>	 <b>CLUDERA</b>	 <b>D2 IQ</b> D2iQ, Inc. (f/k/a Mesosphere)	 <b>databricks</b>	 <b>DiDi</b> DiDi USA	 <b>ERICSSON</b>	
Galgotias University Galgotias University	 <b>GRAVITI</b> GRAVITI TECHNOLOGIES INC. Funding: \$10M	 <b>GGI TECHNOLOGY</b> GGI Technology MCap: \$130.7M	 <b>OPPO</b> Guangdong OPPO Mobile Telecommunications Corp., Ltd.	 <b>Herron Tech</b> Herron Tech	 <b>HST</b> High School Technical Services	 <b>HUAWEI</b> Huawei Technologies Co., Ltd.	 <b>index analytics</b> Index Analytics	 <b>ING</b> ING Group	 <b>IBM</b> International Business Machines Corporation	 <b>ISSIP</b> International Society of Service Innovation Professionals	 <b>RICE KEN KENNEDY INSTITUTE</b>	
Montreal AI Ethics Institute Montreal AI Ethics Institute	 <b>NYU</b> New York University Funding: \$5M	 <b>NOKIA</b> Nokia Corporation MCap: \$29.2B	 <b>OpenI</b> 启智 新一代人工智能开源开放平台	 <b>OpenUK</b> OpenUK	 <b>PennState Great Valley</b> The Pennsylvania State University	 <b>PSIT</b> Panjab Singh Institute Of Technology	 <b>precisely</b> Precisely Holdings, LLC	 <b>QuantUniversity, LLC</b> Quantitative Insights	 <b>Red Hat</b> Red Hat, Inc.	 <b>R Studio</b> RStudio PBC	 <b>SAHYADRI COLLEGE OF ENGINEERING &amp; MANAGEMENT</b> Sahyadri College of Engineering & Management	
SAS Institute Inc. SAS	 <b>shopen</b> Shanghai OpenSource Information Technology Association Shanghai OpenSource Information Technology Association	 <b>Tech Mahindra</b> Tech Mahindra Limited	 <b>Tencent</b> Tencent Holdings Limited MCap: \$724.1B	 <b>ETL</b> The Institute for Ethical AI & Machine Learning	 <b>Union.ai</b> The Institute for Ethical AI & Machine Learning	 <b>W</b> UNIVERSITY OF WASHINGTON	 <b>ULT</b> Université Libre de Toulouse	 <b>vmware</b> VMware, Inc.	 <b>XENONSTACK</b> XenonStack Inc.	 <b>XPRIZE</b> XPRIZE	 <b>ZILLIZ</b> Zilliz	
 <b>ZTE</b> ZTE Corporation MCap: \$22.2B												

# 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

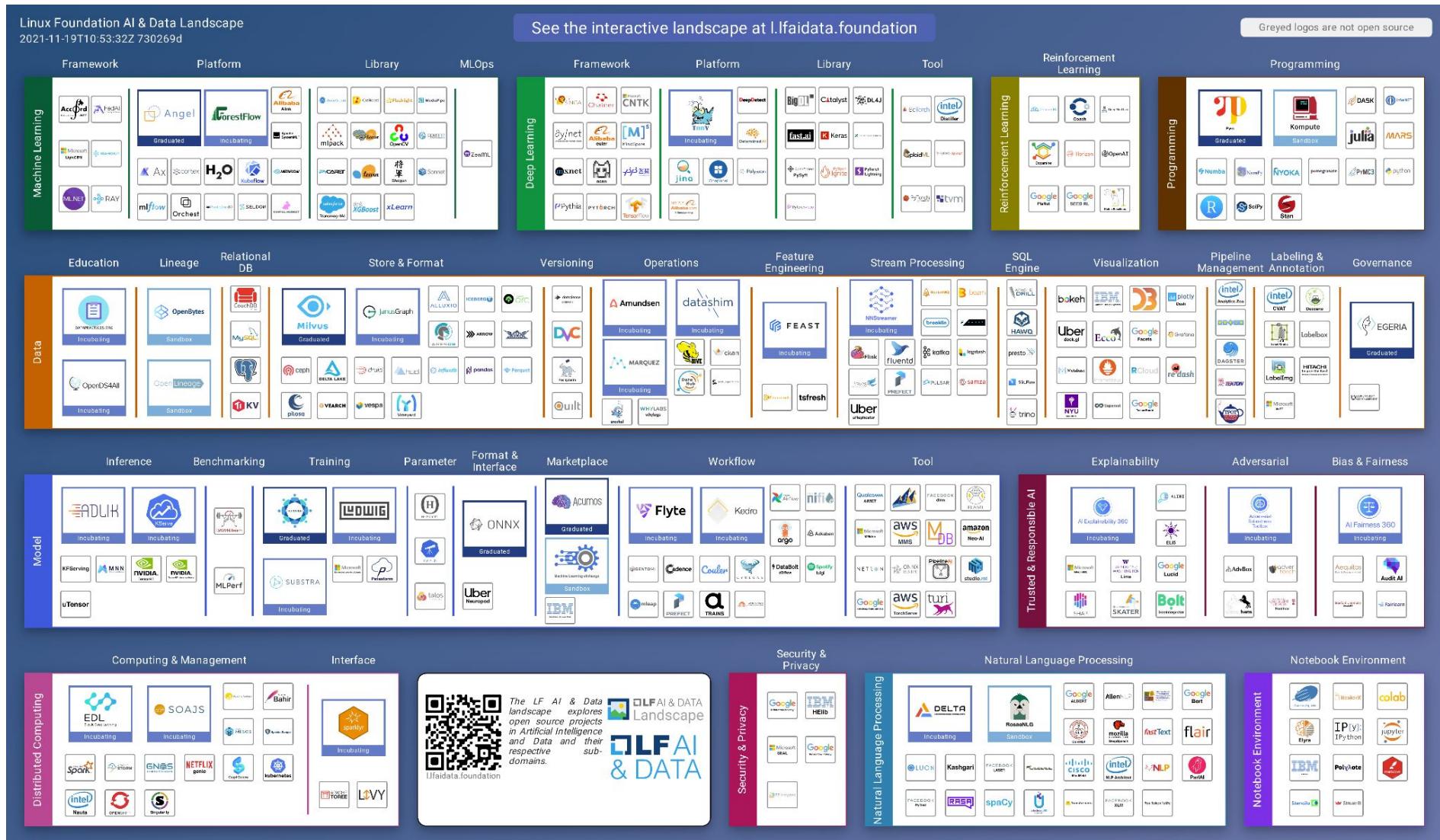
**145+ founding orgs**

**10+ universities**

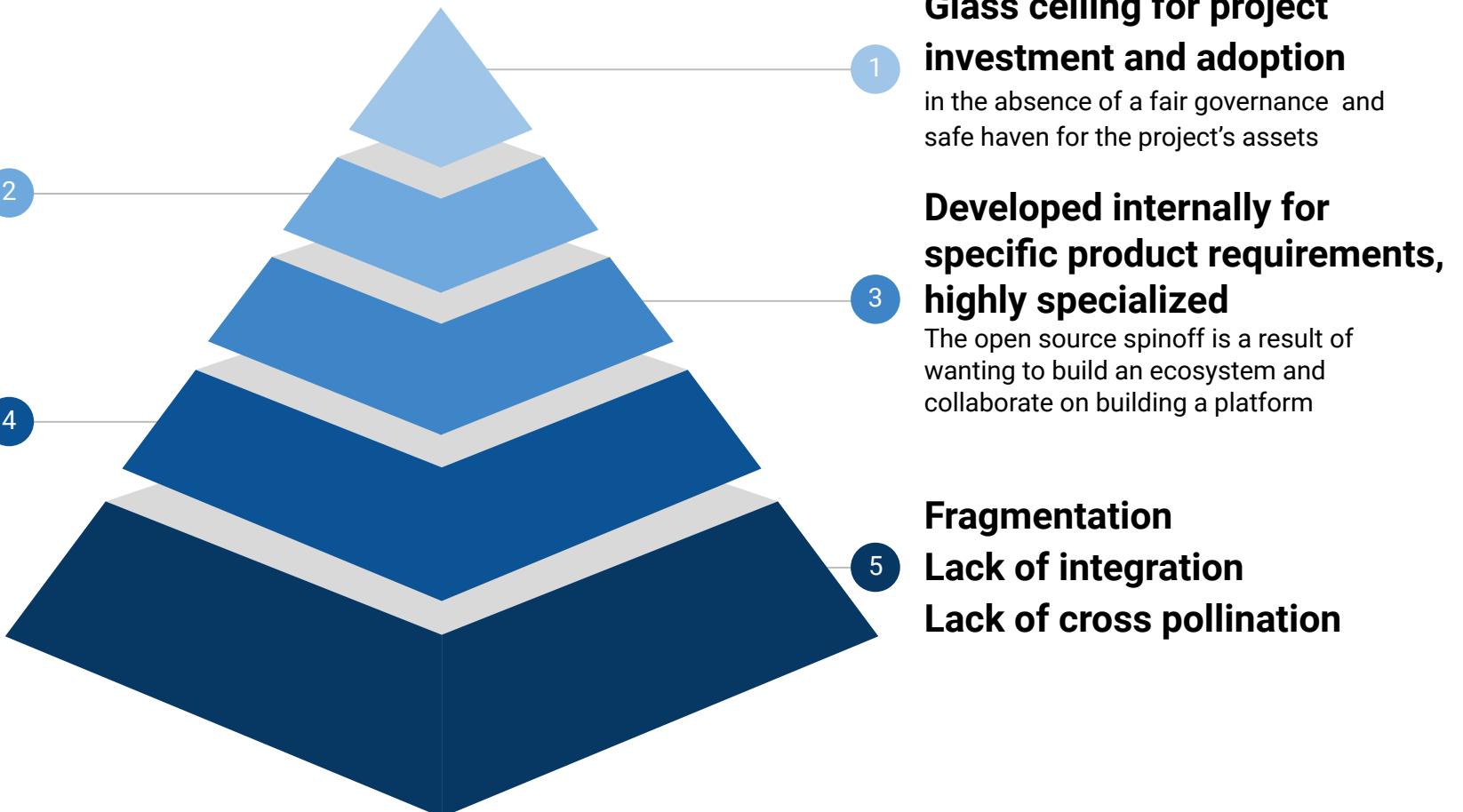
**13 licenses**

**>450M LoC**

**>1M new LoC weekly**



# But with challenges



# Over 10% 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

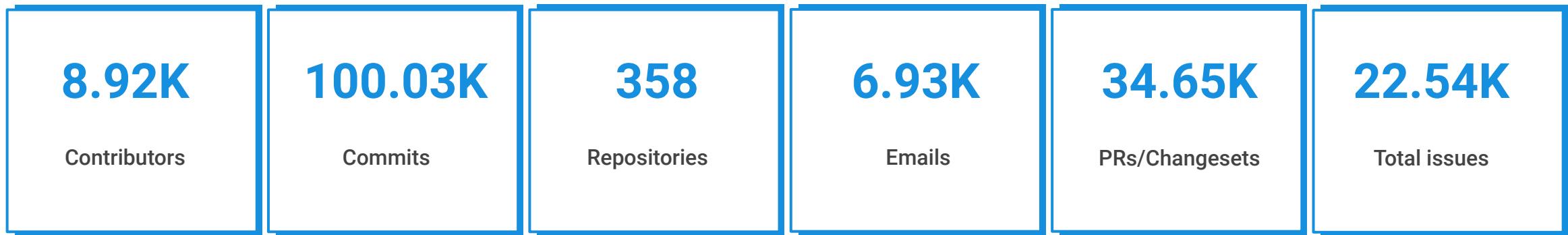


# LF AI & Data Developer Community



# 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

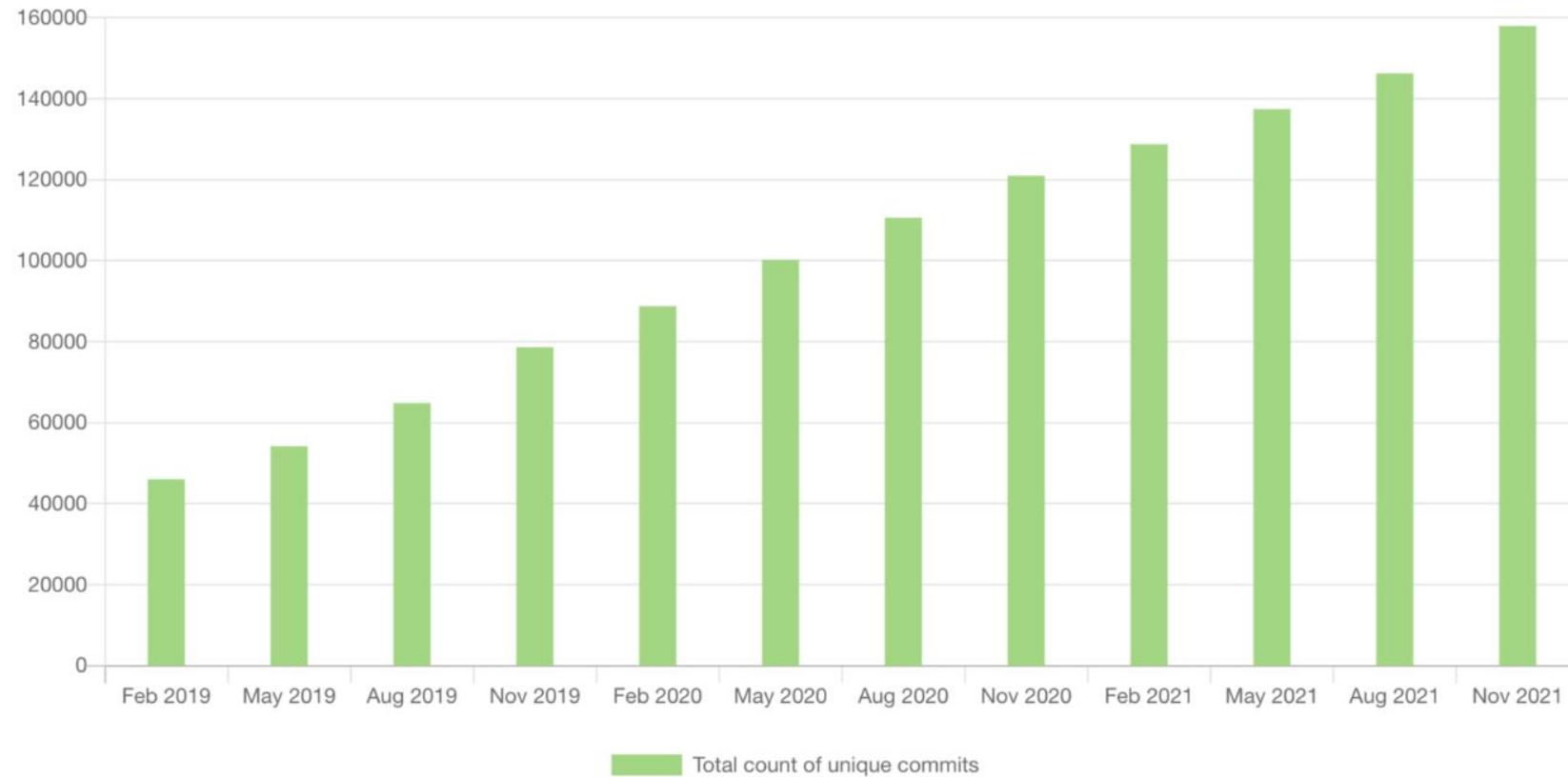
1.54M



Registry

## Commits Growth

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

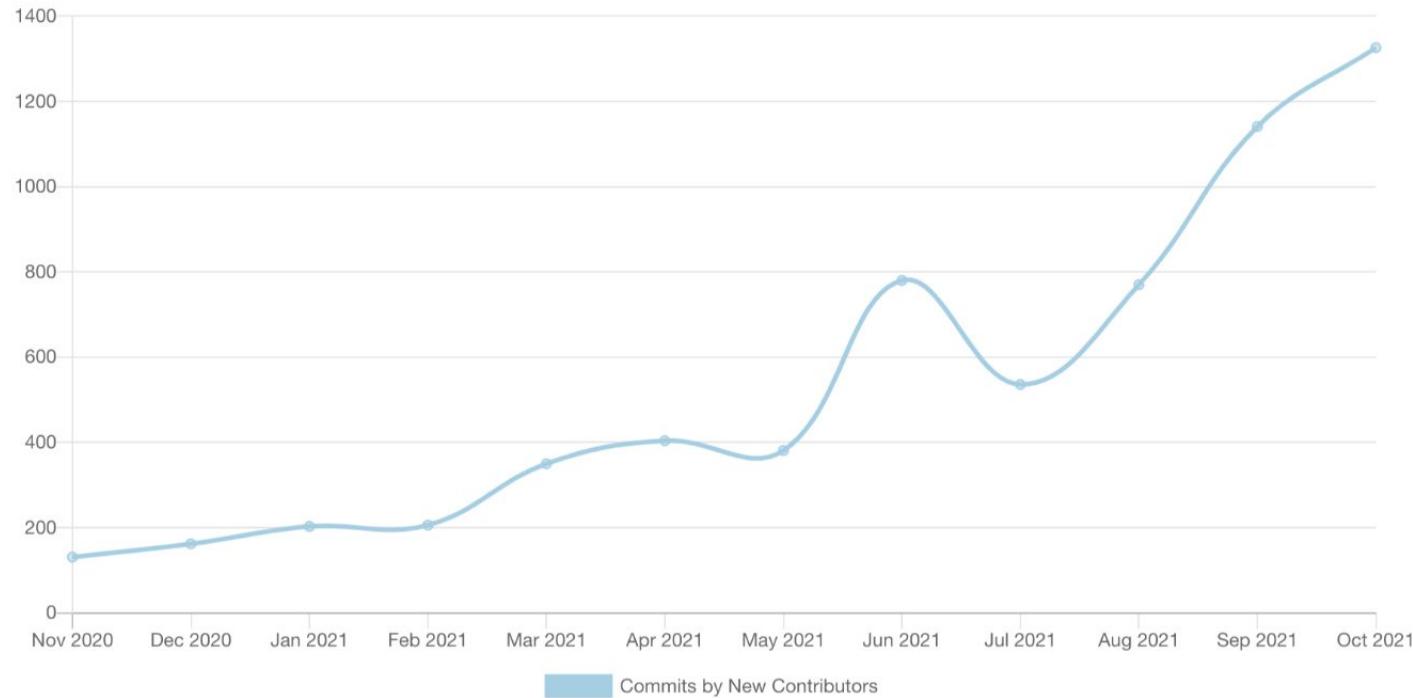


### Key Insights

- 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.

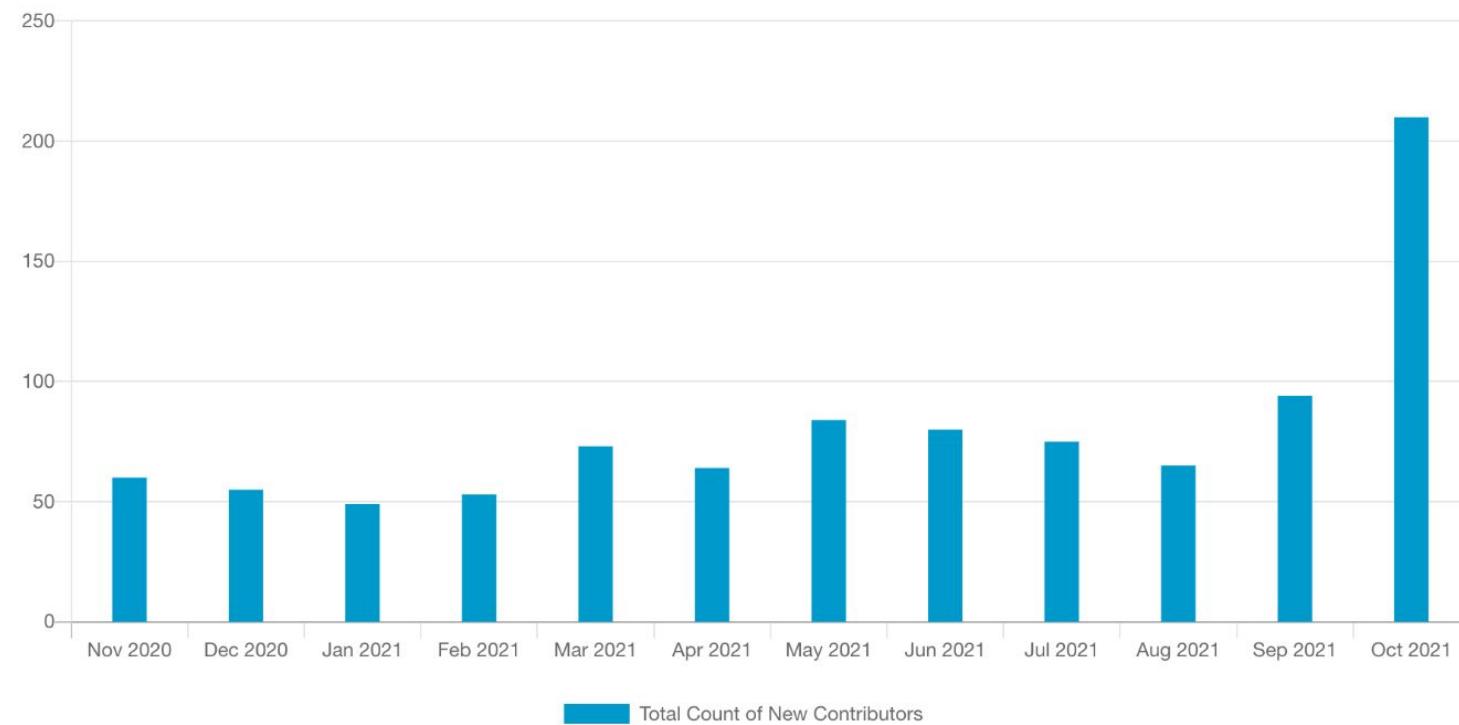


The commits by new contributors have **increased by 912.21%** during the last 1 Year.

# New Contributor Growth

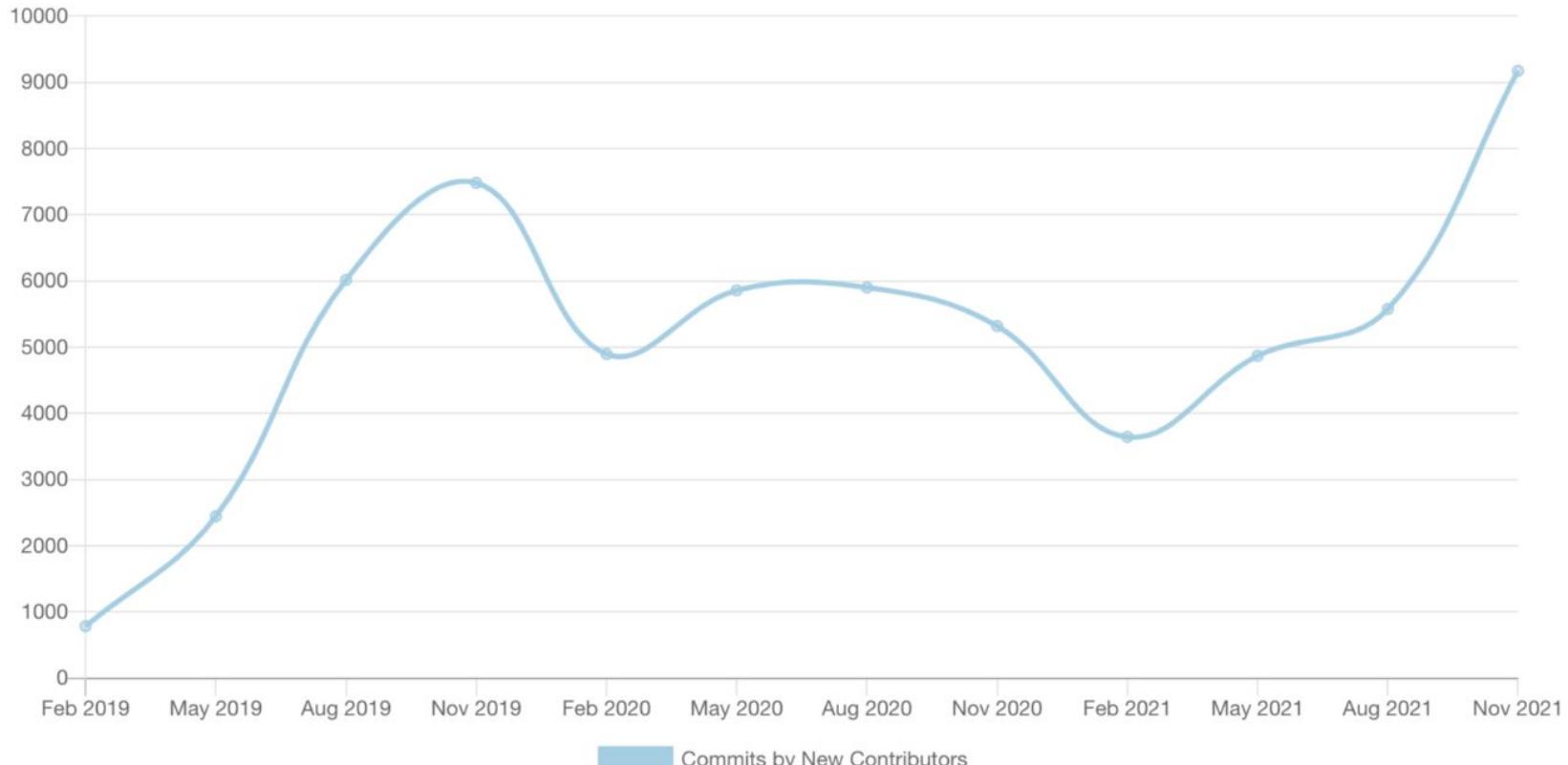
A new contributor is defined as someone who performed their first code activity during the selected time period.

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

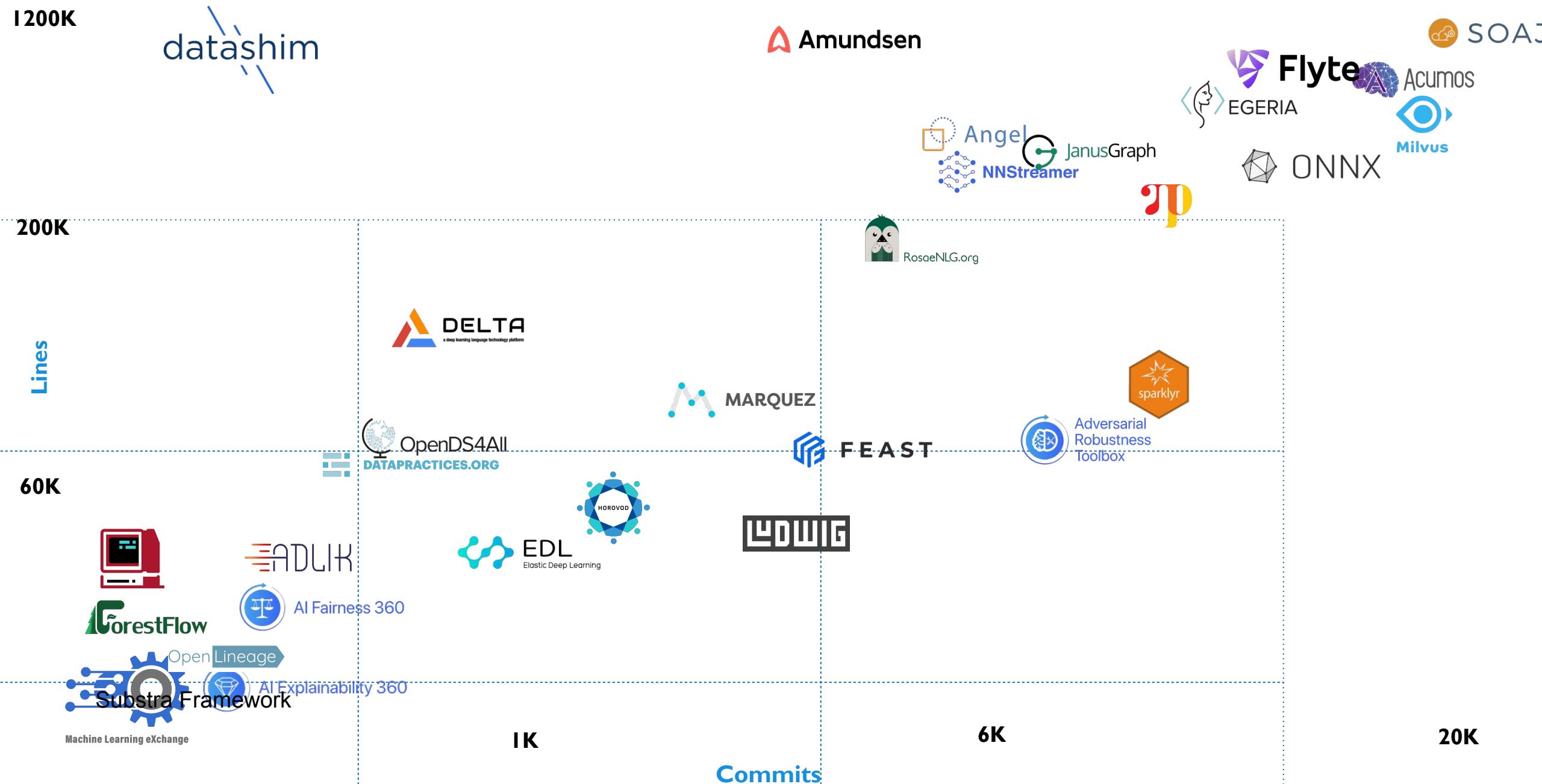
### Community events

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

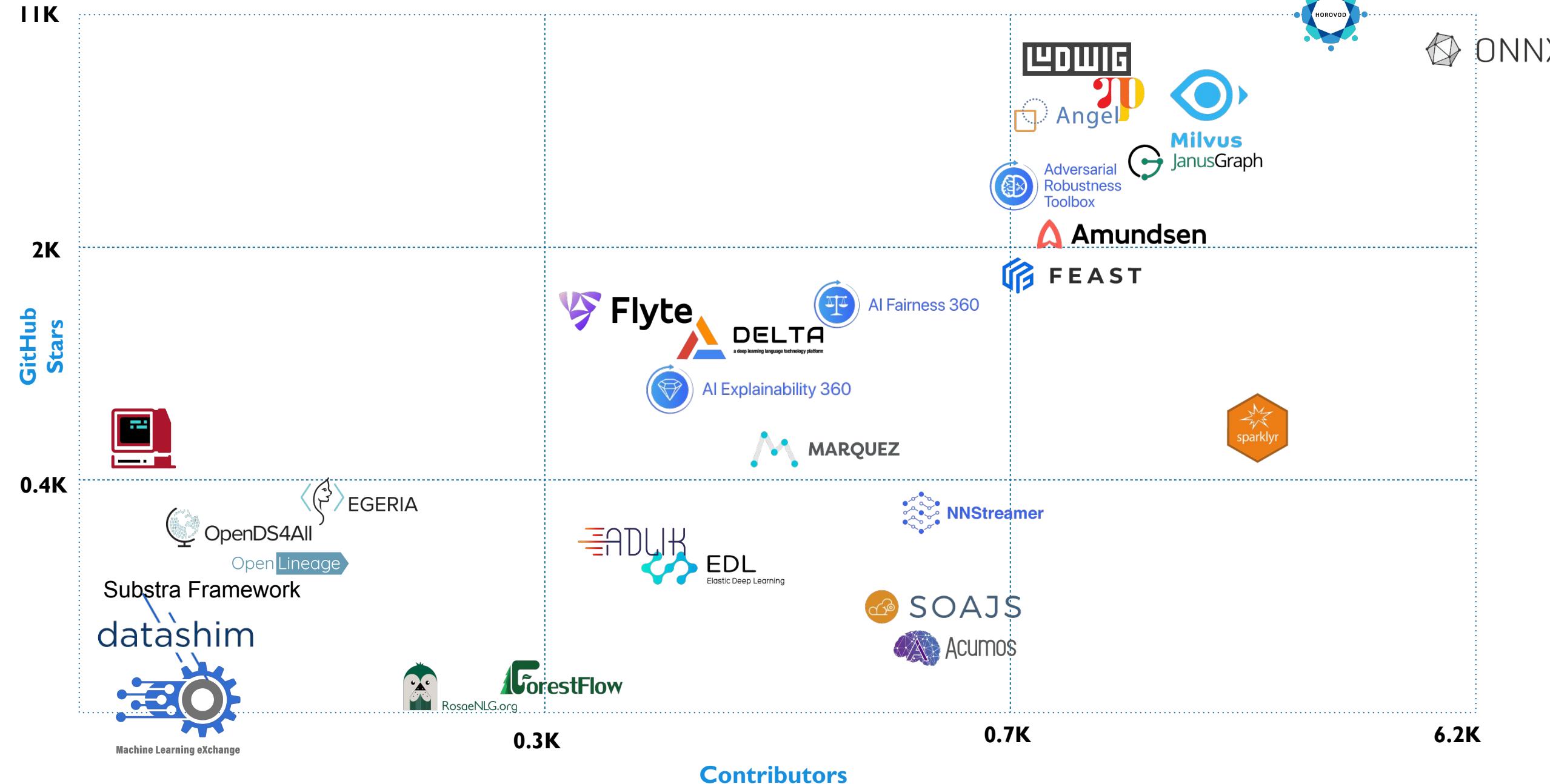
### Major conferences

- › 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.

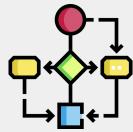


## LF AI & Data Blog

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.



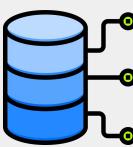
## BI & AI

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



## 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.

# 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

	<b>Not Yet a Linux Foundation Member</b>	<b>Existing Linux Foundation Member</b>
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

# Challenges

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

# Opportunities / Trends

- › 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

Join us and become a member!

Incubate your project

[info@lfaidata.foundation](mailto:info@lfaidata.foundation)



**DLF** AI & DATA

# LF AI & Data Project Maturities

Adopting the same project maturity levels as other LF umbrellas

