Meeting of the LF AI & Data Technical Advisory Council (TAC)

September 9, 2021



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Recording of Calls

Reminder:

TAC calls are recorded and available for viewing on the TAC Wiki



Reminder: LF AI & Data Useful Links

Web site: <u>Ifaidata.foundation</u>

Wiki: <u>wiki.lfaidata.foundation</u>

> GitHub: <u>github.com/lfaidata</u>

> Landscape: https://landscape.lfaidata.foundation or

https://l.lfaidata.foundation

Mail Lists: https://lists.lfaidata.foundation

> Slack: https://slack.lfaidata.foundation

Youtube: https://www.youtube.com/channel/UCfasaeqXJBCAJMNO9HcHfbA

> LF AI Logos: https://github.com/lfaidata/artwork/tree/master/lfaidata

- > LF AI Presentation Template: https://drive.google.com/file/d/1eiDNJvXCqSZHT4Zk czASIz2GTBRZk2/view?usp=sharing
- > Events Page on LF AI Website: https://lfaidata.foundation/events/
- Events Calendar on LF Al Wiki (subscribe available): https://wiki.lfaidata.foundation/pages/viewpage.action?pageId=12091544
- Event Wiki Pages:

https://wiki.lfaidata.foundation/display/DL/LF+AI+Data+Foundation+Events

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Agenda

- Roll Call (2 mins)
- Approval of Minutes from previous meeting (2 mins)
- Marquez Project (20 minutes)
- Acumos Project (20 minutes)
- Outreach committee update (10 minutes)
- LF AI General Updates (2 min)
- Open Discussion (2 min)



TAC Voting Members

* = still need backup specified on wiki

| Board Member | Contact Person | Email |
|---------------------|----------------------------|--|
| AT&T | Anwar Atfab* | anwar@research.att.com |
| Baidu | Ti Zhou | zhouti@baidu.com |
| Ericsson | Rani Yadav-Ranjan* | rani.yadav-ranjan@ericsson.com |
| Huawei | Huang Zhipeng | huangzhipeng@huawei.com |
| IBM | Susan Malaika | malaika@us.ibm.com |
| Nokia | Jonne Soininen | jonne.soininen@nokia.com |
| OPPO | Jimin Jia* | jiajimin@oppo.com |
| SAS | Nancy Rausch | nancy.rausch@sas.com |
| Tech Mahindra | Amit Kumar | Kumar_Amit@techmahindra.com |
| Tencent | Bruce Tao | brucetao@tencent.com |
| Zilliz | Jun Gu | jun.gu@zilliz.com |
| ZTE | Wei Meng | meng.wei2@zte.com.cn |
| Graduate Project | Contact Person | Email |
| Acumos | Nat Subramanian | natarajan.subramanian@techmahindra.com |
| Angel | Bruce Tao | brucetao@tencent.com |
| Egeria | Mandy Chessell | mandy_chessell@uk.ibm.com |
| Horovod | Travis Addair* | taddair@uber.com |
| Milvus | Xiaofan Luan | xiaofan.luan@zilliz.com |
| ONNX | Jim Spohrer (Chair of TAC) | spohrer@us.ibm.com |
| Pyro | Fritz Obermeyer* | fritz.obermeyer@gmail.com |



Approval of August 26th, 2021 Minutes

Draft minutes from the August 26th TAC call were previously distributed to the TAC members via the mailing list

Proposed Resolution:

> That the minutes of the August 26th meeting of the Technical Advisory Council of the LF AI & Data Foundation are hereby approved.



Annual Review for Marquez



9/9/2021



Marquez



Brief Description:

Marquez is an open source metadata service for the collection, aggregation, and visualization of a data ecosystem's metadata. It maintains the provenance of how datasets are consumed and produced, provides global visibility into job runtime and frequency of dataset access, centralization of dataset lifecycle management, and much more.

Contributed by:

WeWork in December 2019 as an Incubation Project

Key Links:

Github: https://github.com/MarquezProject/marquez

Website: https://marquezproject.ai

Artwork:

https://github.com/lfai/artwork/tree/master/projects/ma

rquez

Mailing lists:

- marquez-announce
- > marquez-technical-discuss
- marquez-tsc

Incubation/Graduation Project review criteria

To be accepted into the Graduation stage, a project must meet the Incubation stage requirements plus:

- Have a healthy number of code contributions coming from at least five organizations.
 - Datakin, Northwestern Mutual, GetIndata, HSBC, WeWork, ...
- Have reached a minimum of 1000 stars on GitHub.
 - 763 => 76% progress
- Have achieved and maintained a Core Infrastructure Initiative <u>Best Practices Gold Badge</u>.
 - o WIP
- Have demonstrated a substantial ongoing flow of commits and merged contributions for the past 12 months*.

(... to be continued on next slide)



Incubation/Graduation Project review criteria

To be accepted into the Graduation stage, a project must meet the Incubation stage requirements plus:

(... from previous slide)

- Receive the affirmative vote of two-thirds of the TAC and the affirmative vote of the Governing Board.
- Have completed at least one collaboration with another LF AI & Data hosted project
 - OpenLineage
 - Egeria
- Have a technical lead appointed for representation of the project on the LF AI & Data Technical Advisory Council.
 - Julien Le Dem



Organizations contributing







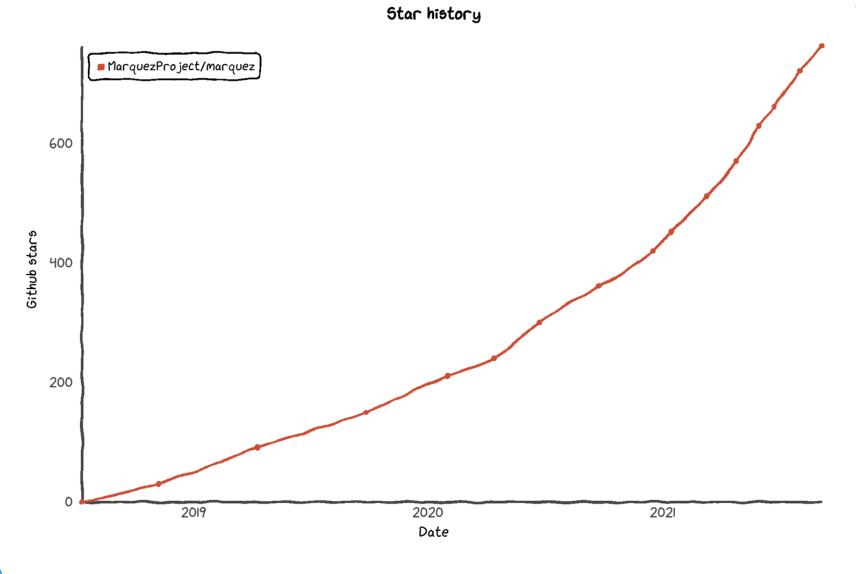






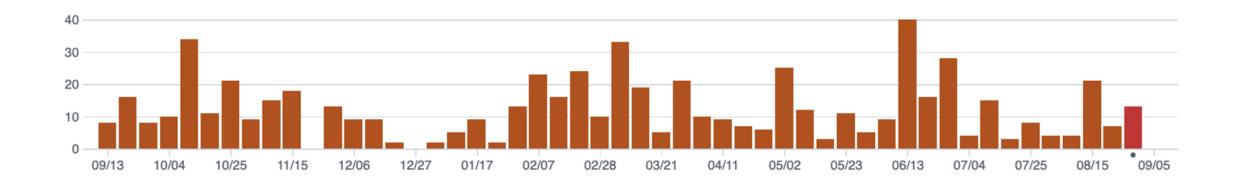
Stars





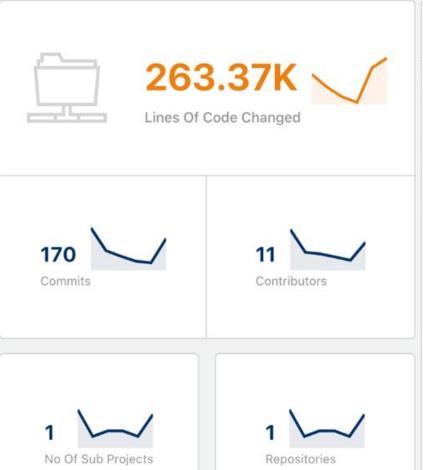


Commits/week





Contributions (by commit)



| Top 10 Contributors By | Commits | | View All |
|------------------------|----------|---------|----------|
| NAME | LINES OF | COMMITS | % |
| Willy Lulciuc | 88.03K | 74 | 33.42% |
| Michael Collado | 15.38K | 38 | 5.84% |
| OleksandrDvornik | 32.08K | 21 | 12.18% |
| Maciej Obuchow | 121.87K | 14 | 46.27% |
| Peter Hicks | 3.87K | 13 | 1.47% |
| Kevin Mellott | 258 | 2 | 0.10% |
| Florian Schulz | 531 | 2 | 0.20% |
| Dominique Tipton | 1.34K | 2 | 0.51% |





Contributions (by PR)







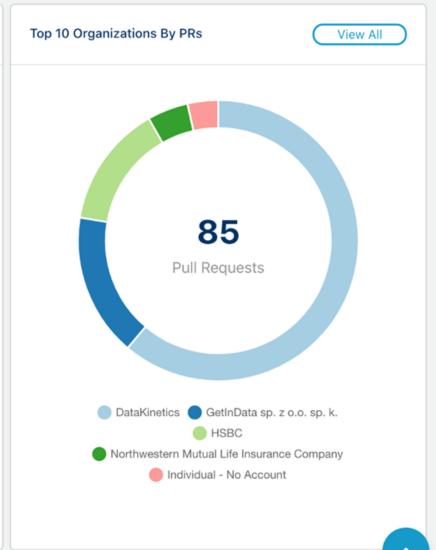
1.6 days



3.7 days

Average PR Cycle Time

| Top 10 Contributors By PRs | | View All |
|----------------------------|---------------|----------|
| NAME | PULL REQUESTS | % |
| Willy Lulciuc | 34 | 40.00% |
| Maciej Obuchowski | 14 | 16.47% |
| Michael Collado | 14 | 16.47% |
| OleksandrDvornik | 12 | 14.12% |
| Peter Hicks | 4 | 4.71% |
| Dominique Tipton | 2 | 2.35% |
| Florian Schulz | 2 | 2.35% |
| Kevin Mellott | 2 | 2.35% |
| Nico Ritschel | 1 | 1.18% |

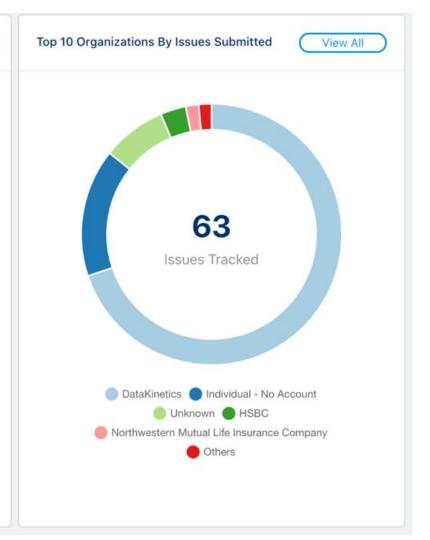




Contributions (by Issue)



| Top 10 Contributors By Issue | View All | |
|------------------------------|----------|--------|
| NAME | ISSUE | % |
| Julien Le Dem | 20 | 31.75% |
| Michael Collado | 12 | 19.05% |
| Willy Lulciuc | 10 | 15.87% |
| krehermann | 3 | 4.76% |
| Michoel Snow | 2 | 3.17% |
| OleksandrDvornik | 2 | 3.17% |
| Antonio Moctezuma | 1 | 1.59% |
| Florian Schulz | 1 | 1.59% |
| Kevin Alejandro Go | 1 | 1.59% |
| | | |





Key Achievements in the past year

- Moved to a mono repo to facilitate development
- Next Generation of Metadata collection
- Major UI improvements
- Major API improvements



Moved to a monorepo

- Facilitates release management
- Clients/UI/API are always in sync
- faster iterations



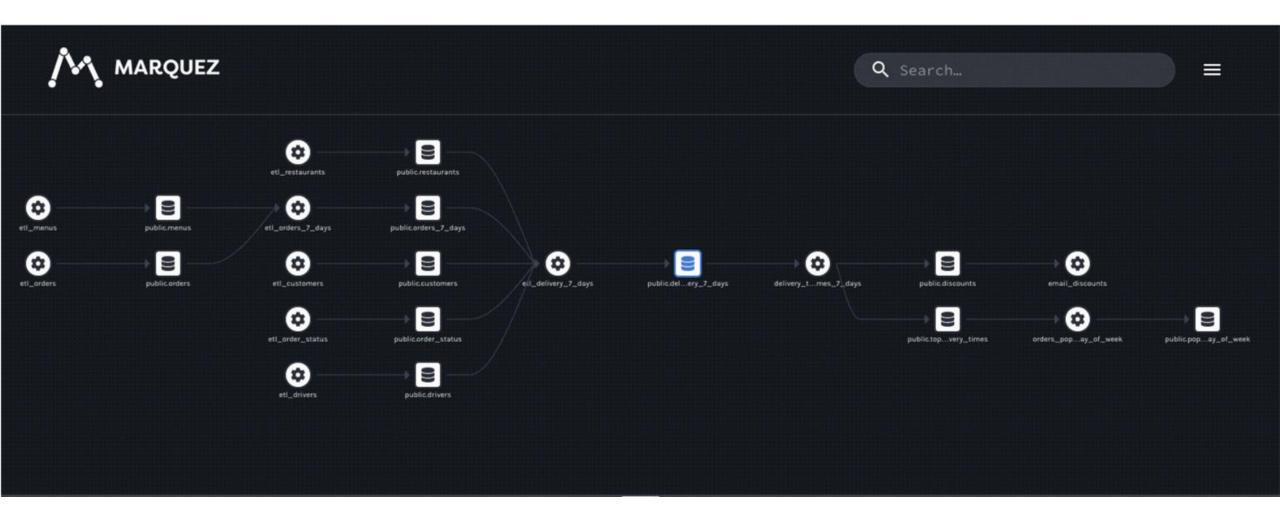
Metadata collection



- Evolution of the metadata ingestion API from the original Marquez API to OpenLineage as a new Top Level project
- Marquez became the OpenLineage reference implementation
- Many new integrations:
 - Spark
 - Snowflake
 - dbt
 - BigQuery
 - -

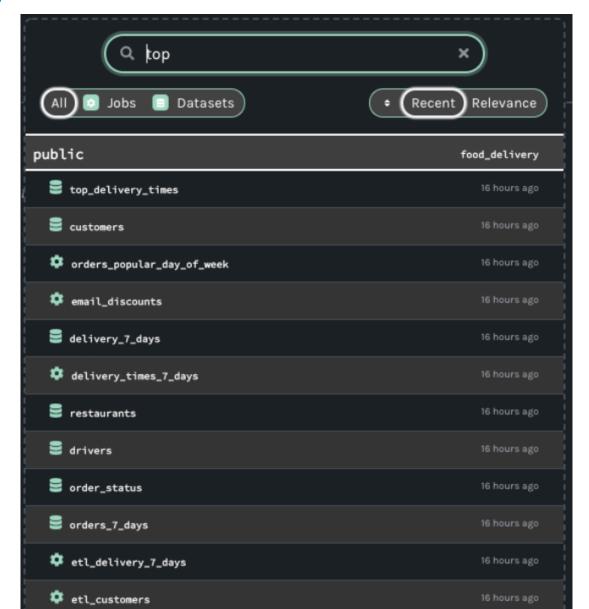


Major UI improvements: lineage view





Major UI improvements: search





Major API improvements

- More complete APIs:
 - access job and dataset history
 - traverse the run-level lineage graph through job and dataset versions.
 - explore the lineage of a given node through the lineage API
- experimental GraphQL API



Areas the project could use help on

- More UI improvement contributions
- Easier deployment in various cloud providers (aws, gcp, ...)
- Improving the GraphQL support
- Integration with even more LF AI&Data projects (Amundsen, ...)



Community Meetings

- Monthly online meetings with the community
- Archived on <u>YouTube</u>



Talks



Feedback on working with LF AI & Data

- The foundation framework is very flexible and doesn't add much overhead to projects
- Interactions in general are very helpful
- Hard to participate to the monthly call from Pacific Time (it's 6am PT, but also 9pm CST)



Annual Review for Acumos 09SEP2021

Amit Kumar Kumar_Amit@TechMahindra.com>

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Acumos ·



Brief Description:

Acumos is an Open Source Platform, which supports design, integration and deployment of Al models. Furthermore, Acumos supports an Al marketplace that empowers data scientists to publish adaptive Al models, while shielding them from the need to custom develop fully integrated solutions.

TSC Chairperson: Amit Kumar

Contributed by:

Initiated by Tech Mahindra and AT&T, contributed to LF in May 2018. First Graduated Project under LF AI and Data.

Key Links:

Github https://github.com/acumos

Web Site https://www.acumos.org/

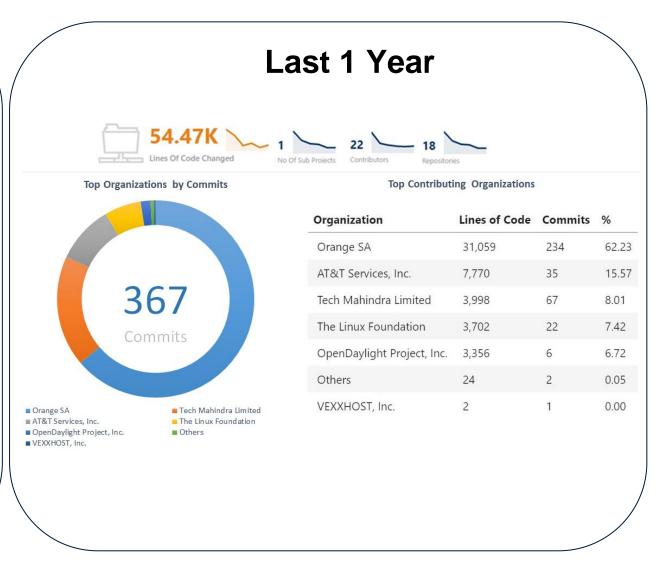
Artwork https://github.com/lfai/artwork/tree/master/projects/acumos

Mail Lists

- acumosai-announce
- acumosai-technical-discuss
- > acumosai-tsc

Contributions

Since 2018 No Of Sub Projects **Top Contributing Organizations** Top Organizations by Commits Organization Lines of Code Commits % AT&T Services, Inc. 2,682,041 3033 47.55 Tech Mahindra Limited 2,424,891 6208 42.99 Ericsson Software Technology 314,540 420 5.58 11.3K Orange SA 72,666 691 1.29 Commits Capgemini 51,712 0.92 286 Amazon 44,339 328 0.79 Others 62 29,928 0.53 The Linux Foundation 15,238 248 0.27 ■ Tech Mahindra Limited ■ AT&T Services, Inc. ■ Capgemini Orange SA OpenDaylight Project, Inc. 0.06 3,446 ■ The Linux Foundation ■ Ericsson Software Technology ■ OpenDaylight Project, Inc. Huawei Technologies Co., Ltd 1.940 4 0.03 ■ Huawei Technologies Co., Ltd

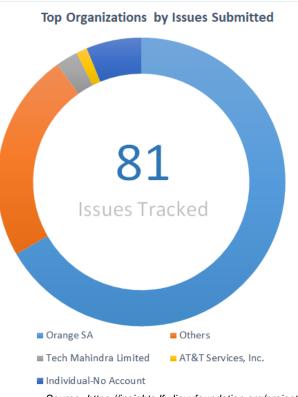




Issues And Support

Overview – Last 1 year





Top Organizations by Issues Submitted

| Organization | Issues | % |
|-----------------------|--------|-------|
| Orange SA | 54 | 66.67 |
| Others | 19 | 23.46 |
| Individual-No Account | 5 | 6.17 |
| Tech Mahindra Limited | 2 | 2.47 |
| AT&T Services, Inc. | 1 | 1.23 |

Source: https://insights.lfx.linuxfoundation.org/projects/lfai%2Facumos/dashboard;subTab=technical



Support Activities Carried Out

Platform Monitoring

- Post Development activities including staging upgrade, validation, production upgrade, release notes and documentation.
- Environment configuration management, monitoring, and troubleshooting

Level 1&2 support

- Deployment queries and onboarding support
 - On-going support to Sterling For Acumos environment set up and overall application functions realization.
- Technical response to alerts / notifications / clients requests
- JIRA Ticket Management and Triaging

Policy, Rules and Grants

- Access Management
- Federation via peer instances and security rule management

Key highlights in the past year

Demeter Release, August 2020

- Cloud Enablement
- On-Boarding
- Licensing
- Training
- ML Work Bench
- Portal

Elpis Release, August 2021

- Model Deployment
- On-Boarding
- Portal-Marketplace
- Micro-services



LF-Al Day, EU – 22 June 2021

- Focus on open source strategies for machine learning and deep learning.
- Presentation of the new functionalities of the latest Acumos Al Demeter Release as a Portable Al platform.
- Presentations by European startups about their innovative Al products
 - Advanced chat-bot for conversational Al from Levia
 - Al empowering HR from Xtramile
 - Neural search engine from Jina Al
 - Visual automation from Ximilar

Source: https://lfaidata.foundation/blog/2020/06/26/thank-you-to-orange-for-a-successful-virtual-lf-ai-day-eu/

Demeter Release Highlights

Cloud Enablement

 Containerized platform deployment incorporating cloud native functions, horizontal scaling, and implementation flexibility



On-Boarding

- CLI message response with the Acumos Docker model
- Support for Pre-dockerized and Dockerized model URI with protobuf file to render models usable in Design studio.



Licensing

- Activity tracking and reporting License usage manager (LUM) maintains logs of model usage
- Integration of License module with Portal UI.



Training

 Bidirectional communication over the federation link between subscriber and supplier instances to support ML life cycle management and continuous learning



ML Work Bench

- Predictor Manager: Model deployment management and metadata visualization
- Data source: Dataset maintenance data association with Models



Portal

Integration of License module with Portal



Elpis Release Highlights



- Initial step towards a fully automated process from model on-boarding to model deployment.
- Connect Acumos with your own CI tool (Jenkins) to trigger Jenkins jobs



On-Boarding

- Add "deploy" parameter in onboarding API.
- Related updates to Java, C++, Python, R, ONNX On-boarding Clients
- Allow the use of a SwaggerUI interface for R models



Portal-Marketplace

- Take into account "deploy" parameter in synchronous and asynchronous micro-service generation
- Create a new Admin page to fulfill Jenkins server parameters



Micro-services

- Speed up the Micro-service creation of R models with enhanced on-boarding-base-r image
- Use of JSON and SwaggerUI with R models
- Create deployment backend



Upcoming Features

- Completion of automated model deployment functions.
- GitLab CI support for automated deployment
- API token enablement for onboarding
- MLX-Acumos Collaboration
- Stabilization/Support



Areas the project could use help on

- Diverse contributions from more organizations
- Community operations like code review, issue management, documentations etc.
- Cross collaborations with other open source projects (Al explainability 360, Al fariness 360, ML exchange and many others)
- Outreach promotions with Linux Foundation channels
- Joint events both online and offline
- MLX Acumos Collaboration in progress
 - MLX, an IBM contributed LF project, is a Data and Al Assets Catalog and Execution Engine.
 - MLX to use Acumos for Marketplace and ONAP deployment capabilities for MLX models and pipelines



Feedback on working with LF AI & Data

- Many thanks to the foundation for the guidance and help.
- Greatly benefitted from LF AI & Data resources including website, Zoom meetings, Slack, mailing lists, wiki space, etc.
- Great support for Community Meetings, Release Blogs and Social Media.
- Looking forward to more correlations and collaborations among the projects in and outside the foundation.
- More and more professional in the project staging process like sandbox/incubation/graduation



Outreach Committee Update

September 9, 2021

Jamil Chawki

THE LINUX FOUNDATION



Announcements

https://lfaidata.foundation/news/

THE LINUX FOUNDATION

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Recent Announcements

- I. Angel new release v3.2, July 29
- 2. Acumos new release Elips, Aug 5
- 3. Delta new incubation project, June 17
- 4. Substra new incubating project, July 14
- 5. OpenLineag, new Sandbox project, July 22
- 6. Tony, new incubation project, Aug 24
- 7. Kompute new Sandbox project, Aug 26,
- 8. Egeria Webinar, Visualising Metadata, Sep 13
- 9. LF Al & Data Booth at Open Source Summit (OSS)– Sept 27 30 (Seattle, Washington)
- 10. DataOps Committee Announcement, Sept 7

Upcoming Announcements

- LF AI & Data Day: ONNX Community Virtual Meetup, Oct 21
- 2. Kedro Incubation Project Announcement
- 3. KubeCon, CloudNativeCon, Open Source Summit China Shanghai, China, Dec 10
- 4. LF Al & Data Booth at OSS Open Source Summit Japan, Tokyo, Dec 14-15
- 5. LF AI & Data New Member Welcome 2021 Q3





Promoting Upcoming Project Releases

We promote project releases via a blog post and on LF AI & Data <u>Twitter</u> and/or <u>LinkedIn</u> social channels

For links to details on upcoming releases for LF Al & Data hosted projects visit the Technical Project Releases wiki

If you are an LF AI & Data hosted project and would like LF AI & Data to promote your release, reach out to pr@lfaidata.foundation to coordinate in advance (min 2 wks) of your expected release date.



LF AI & Data PR/Comms

- > View all recent announcement on the LF Al & Data Blog
- > Please follow LF AI & Data on <u>Twitter</u> (@LFAIDataFdn) & <u>LinkedIn</u> and help amplify news via your social networks Please retweet and share!
 - > Also watch for news updates via the tac-general mail list
- Open call to publish project/committee updates or other relevant content on the LF AI & Data Blog

To discuss more details on participation or upcoming announcements, please email pr@lfai.foundation



Upcoming Events

THE LINUX FOUNDATION

ILFAI & DATA

LF AI & Data Booth @ OSS 2021, Seattle, Washington, Sept 27-30

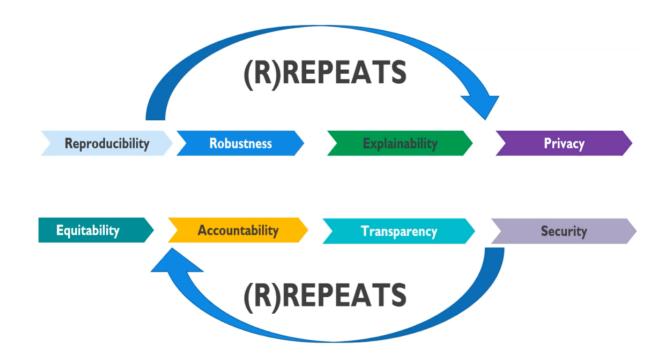
OSS EU Event Site: Open Source Summit | Linux Foundation Events



LFAI & Data Trusted Al Principles Webinar, Sept 29

Zoom registration

https://zoom.us/meeting/register/tJUpc-GoqjwtGtH_xVM6KiqCc-sPlcGRmQB1





KubeCon, CloudNativeCon, Open Source Summit, China, Dec 9-10

OSS Event site

https://www.lfasiallc.com/kubecon-cloudnativecon-open-source-summit-china/





LF AI & Data Booth @ OSS 2021, Tokyo, Dec 14-15

OSS Event site Open Source Summit Japan | Linux Foundation Events





All Events

- Upcoming Events
 - Visit the <u>LF AI & Data Events Calendar</u> or the <u>LF AI & Data 2021 Events wiki</u> for a list of all events
 - To participate visit the LF Al & Data 2021 Events wiki page or email info@lfaidata.foundation

> To discuss participation in an event or to host an event, please email events@lfaidata.foundation



Topics for Discussion

- What projects & Al use cases would you like to promote?
- How can we create synergy between Premier/General and Associate Members (we have now 22 Associate members from US, France, UK, Italy, India and China)
- We need participants (booth staff, speakers, etc.) for the LF AI & Data Events (OSS NA, China, Japan)
- We need volunteer to Organize an LF AI & Data Day in 2021 (US, EU & APAC)
 - LF Al Days are regional, one-day events hosted and organized by local members with support from LF Al & Data and its Projects. Event Host is responsible to organize the Day and to provide agenda and other event contents.
- > Email Jamil Chawki, jamil.chawki@orange.com for discussion/questions on above



Upcoming TAC Meetings

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Upcoming TAC Meetings (Tentative)

- Sept 23: NNStreamer Annual project review; ForestFlow Annual project review
- Oct 7, 2021: Ludwig Annual project review, Amundsen Annual project review

Please send agenda topic requests to tac-general@lists.lfaidata.foundation

LF AI & Data - Ongoing Annual Project Reviews

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| Date | Project | Presenter |
|---------------------------------------|------------------------------------|--|
| April 6, 2021 | Egeria | Mandy Chessell (slack) - TAC recording / deck |
| April 6, 2021 | OpenDS4all | Andre de Waal (slack) - TAC recording / deck |
| May 20, 2021 | ONNX | Jim Spohrer (slack) - TAC recording / deck |
| July 15, 2021 | EDL | Ti Zhou (slack) deck |
| July 29, 2021 | Angel | Bruce Tao (slack) (confirmed) deck |
| July 29, 2021 | Adlik | Meng Wei (slack) (confirmed) deck |
| Aug 12, 2021 (potentially Aug 12) | Sparklyr | Sigrid Keydana Yitao Li (slack) (confirmed) deck |
| Aug 12, 2021 | Milvus | Jun Gu (slack) (confirmed) |
| Aug 26, 2021 | Kendro new project into incubation | Yetunde Dada <yetunde_dada@mckinsey.com></yetunde_dada@mckinsey.com> |
| Sept 9, 2021 | Marquez | Julien le Dem (slack) (confirmed) |
| Sept 9, 2021 | Acumos | Amit Kumar (slack) (tentative) |
| Sept 23, 2021 | NNStreamer | MyungJoo Ham (slack) (confirmed) |
| Sept 23, 2021 | ForestFlow | Ahmad Alkilani (slack) (confirmed) |
| Oct 7, 2021 | Ludwig | Piero Molino (slack) (confirmed) |
| Oct 7, 2021 | Amundsen | Mark Grover (slack) (confirmed) |
| Oct 21, 2021 | AI Fairness 360 | Animesh Singh (to be asked) |
| Oct 21, 2021 | AI Explainability 360 | Animesh Singh (to be asked) |
| Oct 21, 2021 | Adversarial Robustness Toolbox | Animesh Singh (to be asked) |
| Nov 4, 2021 | Horovod | Travis Addair (to be asked) |
| Nov 4, 2021 | FEAST | Willem Pienaar (to be asked) |
| Nov 18, 2021 | SOAJS | Antoine Hage (to be asked) |
| Nov 18, 2021 | Delta | Kun Han (to be asked) |
| Dec 2, 2021 | DataPractices.org | Patrick McGarry (to be asked) |
| Dec 2, 2021 | JanusGraph | Jason Plurad (to be asked) |
| Dec 16, 2021 | Pyro | Fritz Obermeyer (to be asked) |
| Jan 6, 2021 | Datashim | Yiannis Gkoufas (to be asked) |
| Jan 6, 2022 | Flyte | Ketan Umare (to be asked) |
| Jan 20, 2022 | RosaeNLG | Ludan Stoeckle (to be asked) |
| Jan 20, 2022 | SubstraFramework | Camille Marini (to be asked) |
| | Machine Learning Exchange | Animesh Singh (to be asked) |
| | VulcanKompute | Alejandro Saucedo (to be asked) |
| | OpenLineage | Julien le Dem (to be asked) |
| | MARS | Chris Qin (to be asked) |
| | | |

<u>Schedule:</u> https://wiki.lfaidata.foundation/pages/editpage.action?pageId=43286684



TAC Meeting Details

- To subscribe to the TAC Group Calendar, visit the wiki: https://wiki.lfaidata.foundation/x/cQB2 ____
- Join from PC, Mac, Linux, iOS or Android: https://zoom.us/j/430697670
- Or iPhone one-tap:
 - US: +16465588656,,430697670# or +16699006833,,430697670#
- Or Telephone:
 - Dial(for higher quality, dial a number based on your current location):
 - US: +1 646 558 8656 or +1 669 900 6833 or +1 855 880 1246 (Toll Free) or +1 877 369 0926 (Toll Free)
- Meeting ID: 430 697 670
- International numbers available: https://zoom.us/u/achYtcw7uN



Open Discussion



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- > Please email legal@linuxfoundation.org with any questions about The Linux Foundation's policies or the notices set forth on this slide.

