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

June 2, 2022

LF AI & DATA

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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: lfaidata.foundation
- Wiki: wiki.lfaidata.foundation
- GitHub: github.com/lfaidata
- 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_-czASlz2GTBRZk2/view?usp=sharing

- Events Page on LF AI Website: https://lfaidata.foundation/events/
- Events Calendar on LF AI 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

Agenda

- Roll Call (2 mins)
- Approval of Minutes from previous meeting (2 mins)
- ML Ops Committee Proposal – Jerry Tan, 4paradigm
- LF AI General Updates (2 min)
- Open Discussion (2 min)

TAC Voting Members - Please note

Please ensure that you do the following to facilitate smooth procedural quorum and voting processes:

- Change your Zoom display name to include your First/Last Name, Company/Project Represented
  - example: Nancy Rausch, SAS
- State your First/Last Name and Company/Project when submitting a motion
  - example: First motion, Nancy Rausch/SAS

TAC Voting Members

Note: we still need a few designated backups specified on wiki

Member Representatives (9 out of 17 required for quorum)

Member Company or Graduated Project	Membership Level or Project Level	Voting Eligibility	Country	TAC Representative	Designated TAC Representative Alternates
4paradigm	Premier	Voting Member	China	Zhongyi Tan	
Baidu	Premier	Voting Member	China	Ti Zhou	Daxiang Dong, Yanjun Ma
Ericsson	Premier	Voting Member	Sweden	Rani Yadav-Ranjan	
Huawei	Premier	Voting Member	China	Howard (Huang Zhipeng)	Charlotte (Xiaoman Hu) , Leon (Hui Wang)
Nokia	Premier	Voting Member	Finland	@ Michael Rooke	@ Jonne Soininen
OPPO	Premier	Voting Member	China	Jimin Jia	
SAS	Premier	Voting Member	USA	*Nancy Rausch	JP Trawinski
ZTE	Premier	Voting Member	China	Wei Meng	Liya Yuan
Acumos Project	Graduated Technical Project	Voting Member	USA	Amit Kumar	Prasanna Kulkarni
Adversarial Robustness Toolbox Project	Graduated Technical Project	Voting Member	USA	Beat Buesser	
Angel Project	Graduated Technical Project	Voting Member	China	Bruce Tao	Huaming Rao
Egeria Project	Graduated Technical Project	Voting Member	UK	Mandy Chessell	Nigel Jones, David Radley, Maryna Strelchuk, Ljupcho Palashevski, Chris Grote
Flyte Project	Graduated Technical Project	Voting Member	USA	Ketan Umare	
Horovod Project	Graduated Technical Project	Voting Member	USA	Travis Addair	
Milvus Project	Graduated Technical Project	Voting Member	China	Xiaofan Luan	Jun Gu
ONNX Project	Graduated Technical Project	Voting Member	USA	Alexandre Eichenberger	Prasanth Pulavarthi, Jim Spohrer
Pyro Project	Graduated Technical Project	Voting Member	USA	Fritz Obermeyer	

*Current TAC Chairperson

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Minutes approval

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Approval of May 5, 2022 Minutes

Draft minutes from the May 5th TAC call were previously distributed to the TAC members via the mailing list

Proposed Resolution:

- That the minutes of the May 5th meeting of the Technical Advisory Council of the LF AI & Data Foundation are hereby approved.

MLOps Committee Proposal

Jerry Tan
4paradigm

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agenda

- Purpose of MLOps Committee
- Scope of MLOps Committee
- Any difference from existing committee
- What is the communication plan
- Any Feedback

Purpose of MLOps Committee

- We want to build one committee under LF AI & Data, named as MLOps Committee
- Initial Sponsors from TAC：ZTE and 4Paradigm
- MLOps' vision: To enable Data Engineers and System Engineers to build, test, run and update Machine Learning Application in the real world faster and easier.
- Committee's Value Statement: To help MLOps related projects to get more recognization and adoption through cooperation by a passionate community of members.

Which projects are fit for this committee

Open Source Projects can be used in Machine Learning Engineering, not algorithm.
it should be framework neutral, hardware neutral, cloud neutral.

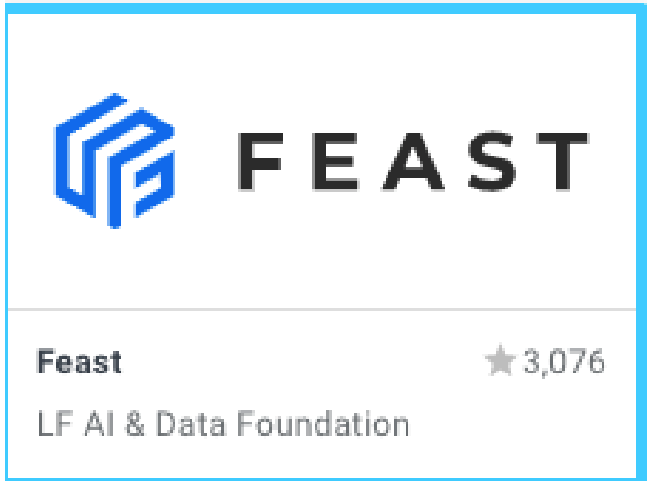
Projects that we will consider to include:

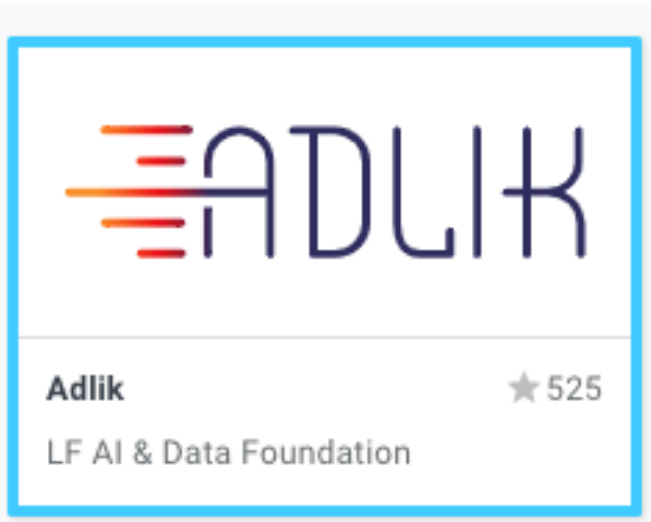
1. Feature Engineering related (Feast, OpenMLDB, etc)
2. Data and Model Version related (DVC, etc)
3. Training and Serving related（Adlik, horovod, etc）
4. Model monitoring related (…)

Projects that we will not include:

1. AI Framework including tensorflow, pytorch, paddlepaddle, mindspore,etc
2. Focused in one specific area as NLP, OCR,etc
3. Data license related
4. Specific hardware related

The initial Projects





OpenMLDB

We will include more projects later.

What is the difference between CDF MLOps sig

There is a MLOps Sig in Continuous Delivery foundation which has Jenkins, Jenkins X, tekton, spinnaker projects.

- Their scope is to extending DevOps principles to the area of Machine Learning
- Their concerns are
  - CI/CD tools across DevOps and MLOps scenarios
  - Pipeline management
  - Common testing aspect such as code coverage, code quality, license tracking, CVE checking etc

Conclusion: Their sig is more focused on CI/CD tools and pipleline in MLOps, but quite different than us. we can have close cooperation with their sig, since we also need CI/CD tools.

What is the difference from ML workflow committee

- MLOps committee focus on MLOps related projects.
- ML workflow and interop committee is more related on different AI framework interoperation and data license.
- They are quite different.

What is the difference from DataOps Committee

- Purpose different:
  - “DataOps is a set of tools and principles to support delivery of trusted, high-quality data. “
  - MLOps cares not only data, but also model.
- Focus different:
  - DataOps can be used in Machine learning and Data analytics.
  - MLOps is focused in Machine learning.
- Project in scope different:
  - DataOps include Egeria, Fybrik, OpenLineage, Datashim
  - MLOps include Feast, adlik, openmldb

Other benefits for LF AI & Data

- Enhance the branding of LF AI & Data in MLOps area
- Attract more projects MLOps related into LF AI & Data

What is the communication plan？

- Have one online meeting once a month, 4Paradigm can organize it.
- Topics
  - Identify projects that fit for MLOps committee and their sceanaris
  - Exposure to industry about these tools
  - Provide opportunity for committee members to cooperate across different projects

- Possible outputs：
  - White paper of MLOps for LFAI & Data
  - Best practice or Engineer Guide for MLOps

Plan for Deliverables Objective in this year

- A book named as 《MLOps Practice & Tools》 in Chinese

- This book will include：
  - what is MLOps？What is it for？And the guideline
  - OpenSource Tools （Feast，OpenMLDB，Adlik）
  - MLOps in real business （Netease，xiaomi，ICBC，etc）

Any Feedback?

Upcoming TAC Meetings

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Upcoming TAC Meetings

- June 16 - BeyondML Sandbox Proposal – Tentative
- June 30 – FATEAI – Sandbox Proposal - Tentative

Please note we are requesting special topics for future meetings.

If you have a topic idea or agenda item, please send agenda topic requests to tac-general@lists.lfaidata.foundation

Open Discussion

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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

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