ML Workflow & InterOp Committee

Overview

The LF AI & Data Governing Board recommended having a reference ML workflow / stack, and showcasing where current LF AI hosted projects fall. The idea is to have a reference architecture and to allow us to identify gaps in our project portfolio so we can focus on project recruitment in areas that we need most, leading us to provide a reference implementation using LF AI & Data hosted projects.

Mailing List

Please subscribe to the ML Workflow mailing list: https://lists.lfaidata.foundation/g/mlworkflow-committee

Meetings

Every 4 weeks on Thursday, 10am EST right after the TAC meeting.

To participate in meetings, please join the mailing list and subscribe to the group calendar: ML Workflow - Community Meetings & Calendar

Zoom:

https://zoom.us/j/9918615568?pwd=TTVaOXcyMXoxWWU4VEZWaTBPQnZIUT09

Slack Channel and Shared Document:

1. Slack Channel
2. Shared Document

Meetings -

Meeting Content (minutes / recording / slides / other):

Date	Minutes
27 August 2020	

11 June 2020	Call was recorded. Recording Alej...w 20200611.mp4

04 June 2020	1. Start with Adlik project on interop
	   a. document: https://docs.google.com/document/d/1_e7Ty9VvEXvgS-4YSuBbER8VA4_vnX6AtZE1bOw_Efc/edit?usp=sharing
	   b. Map new project to ML workflow stack

07 May 2020	1. Kickstart of the interop work, identify top 1~3 use cases, champions that volunteer to lead the use case discussion, and milestones
	   a. document: https://docs.google.com/document/d/1_e7Ty9VvEXvgS-4YSuBbER8VA4_vnX6AtZE1bOw_Efc/edit?usp=sharing
	   b. Map new project to ML workflow stack

09 Apr 2020	Call was recorded, this is the record. And this is the chat.
	
	• We agreed to change the name of the sub committee from ML Workflow Committee to ML Workflow & InterOp Committee (MWI)
	   ○ Zhipeng (Howard) Huang shared the slides of the InterOp Proposal and we agreed to move forward with the plan
	   ○ The first use case we agreed on will be Federated Learning
	   ○ We will create a slack channel for the MWI Committee
	   ○ Zhipeng (Howard) Huang will lead the WMI Committee from now on as Ofer Hermoni is stepping down

12 Mar 2020	• ML Workflow stack (updated deck):
	   ○ Ofer Hermoni shared the work was done off line with Marquez team to map it to the Data Consistency block
	     ■ Jnu Gu of Zilliz provided the mapping to the Serving box
	   ○ Interoperability proposal (see deck)
	     ■ Howard Huang of Huawei presented a proposal for interoperability between the different LFAI projects and also external projects
	     ■ We had a discussion if there is a need for a real interoperability effort or maybe a standard will be enough? We agreed that there is a need for a real interoperability effort
	     ■ Next steps:
	       • In the next ML Workflow meeting Howard will present a plan for the effort
	       • In one of the next TAC meetings Howard will share the proposal with the broader team

13 Feb 2020	Call was recorded, this is the record. And this is the chat.
	
	In the meeting we covered the following:
	
	• We reviewed the current version of the ML Workflow, and tried to identify the correct blocks for the two new projects (Milvus and Marquez)
	   ○ Jun of Zilliz will think about that for Milvus
	     ■ Ofer Hermoni will approach the WeWork team to identify the right location for Marquez
	   ○ Project integration:
	     ■ Natarajan Subramanian covered the status of the collaboration / integration between Acumos and Angel, and Acumos and Adlik. Due to the Corona epidemic everything is slowed down currently in China
	     ■ Natarajan Subramanian also mentioned the work Acumos is doing with AI360. Currently in discussions phase
	   ○ Jessica Kim shared the status of the integration infrastructure Huawei has in Hong Kong, and the plan to add more locations based on Tencent public cloud - both in China and Canada
	   ○ Jessica Kim suggested to leverage the integrations and the ML Workflow activity as part of the outreach activity

16 Jan 2020	In this meeting we had a team from RedHat to present ODH (Open Data Hub)
	
	• In this meeting we started recording our calls. The Zoom recording can be find here. The chat here
	  ○ Deck presented is available here
	  ○ Ofer Hermoni gave a background about the ML Workflow working group goals and activity
	  ○ Redhat team provided a presentation about ODH
	  ○ Apparently there are many overlaps between the two initiatives
	  ○ Next steps
	    ■ Invite the ODH team to present to the TAC
	    ■ A representative of the TAC will join one of the ODH meetings to present LFAI and ML Workflow

05 Dec 2019	Agenda for the meeting:
	
	1. Update about the integration between Acumos and other LFAI projects - Angel and ONNX
	2. Review the latest version of the ML Workflow slides and map
	3. Discuss our focus going forward
	Agenda for the meeting:
	
	Minutes:
	
	• We have now a dedicated mailing list, please make sure you register so you can get all the emails and invites
	  ○ Ofer Hermoni shortly explained to goals of the committee
	  ○ We mapped the new project Sparklyr on the ML stack, and updated the deck
	  ○ Natarajan Subramanian and Fitz Wang updated regarding the integration between Angel and Acumos - the technical teams are working together on the integration
	  ○ Natarajan Subramanian updated re the status of the integration between Acumos and ONNX. Jim Spohrer said he will dedicate more resources to help with that
	  ○ Logistics:
	    ■ Everyone should register to the mailing list in order to get the invites
	    ■ Meetings will be scheduled for once in 4 weeks on Thursdays 10am EST (immediately after the TAC call)
	  ○ We discussed the goals of this committee:
	    ■ The integration between the different projects will be done by the technical teams of the projects. This committee will support that and identify potential collaboration opportunities and identify resource gaps
	  ○ Jim Spohrer suggested to work with the Red Hat team on the Open Data Hub initiative. He will invite Sherard Griffin to talk in the next meeting
	  ○ Jim Spohrer encourages collaboration and integration to IBM AI Fairness framework, it will help to convince IBM to contribute this framework of projects to LFAI

05 Sep 2019	• Goals defined for the meeting:
	  ○ Reevaluate the ML Workflow stack according to feedback we got
	    ■ Work on integration between different LFAI projects
	  ○ Ofer Hermoni shared that there is a lot of interest from the community (LFAI members and the broader community), and many joined this effort, we have 18 people representing 8 companies!
	  ○ evaluate the ML Workflow stack (see here updated deck):
	    ■ Patrick Fu (from Gemini Open Cloud) shared their view on the ML Pipeline (see slide 2 on the deck), main difference was the data consistency layer - we added it to our stack
	    ■ Ofer Hermoni mentioned that Fitz Wang showed in OSS that Angel supports Feature Engineering as well - we added that to the stack
	    ■ Next step - update existing projects on the new stack
	  ○ Integration between different projects:
	    ■ Natarajan Subramanian shared with the team the work we are doing regarding the integration between Acumos and Angel and between Acumos and Horovod
	    ■ Next step - set a "1:1" session dedicated to the integration between Angel and Acumos (Thursday September 19th)
	  ○ More next steps
	    ■ Build a discussion section on the ML Workflow web page (brahim Haddad / Jacqueline Cardoso)

03 Jun 2019	• We farther refined the presentation and discussed next steps for this group ○ IBM presented some of the internal work they are doing around AI open source

23 May 2019	• We discussed the different open source projects and mapped them to our stack. See the results here
	  ○ Next week Animesh will present a framework IBM is building and we will discuss how it can be beneficial to create collaboration between different LFAI projects
	  ○ We will also prepare content for the next TAC meeting in which we will review our progress

16 May 2019	• Animesh from IBM joined reviewed a deck with IBM AI open source activities (this slide that summarizes it)
02 May 2019	• We defined our goal, and started to review the stack. This is the result

Participants (archive as we moved to use the mailing list)

Committee Lead: Zhipeng Howard Huang Zhipeng (Howard) Huang

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