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

September 22, 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)
- Elyra – Proposed new sandbox project (30 minutes)
- 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 (8 out of 16 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	Jimmy (Hongmin Xu)	
SAS	Premier	Voting Member	USA	*Nancy Rausch	JP Trawinski
ZTE	Premier	Voting Member	China	Wei Meng	Liya Yuan
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

Minutes approval

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Approval of August 25, 2022 Minutes

Draft minutes from the August 25 TAC call were previously distributed to the TAC members via the mailing list

Proposed Resolution:

- That the minutes of the August 25 meeting of the Technical Advisory Council of the LF AI & Data Foundation are hereby approved.

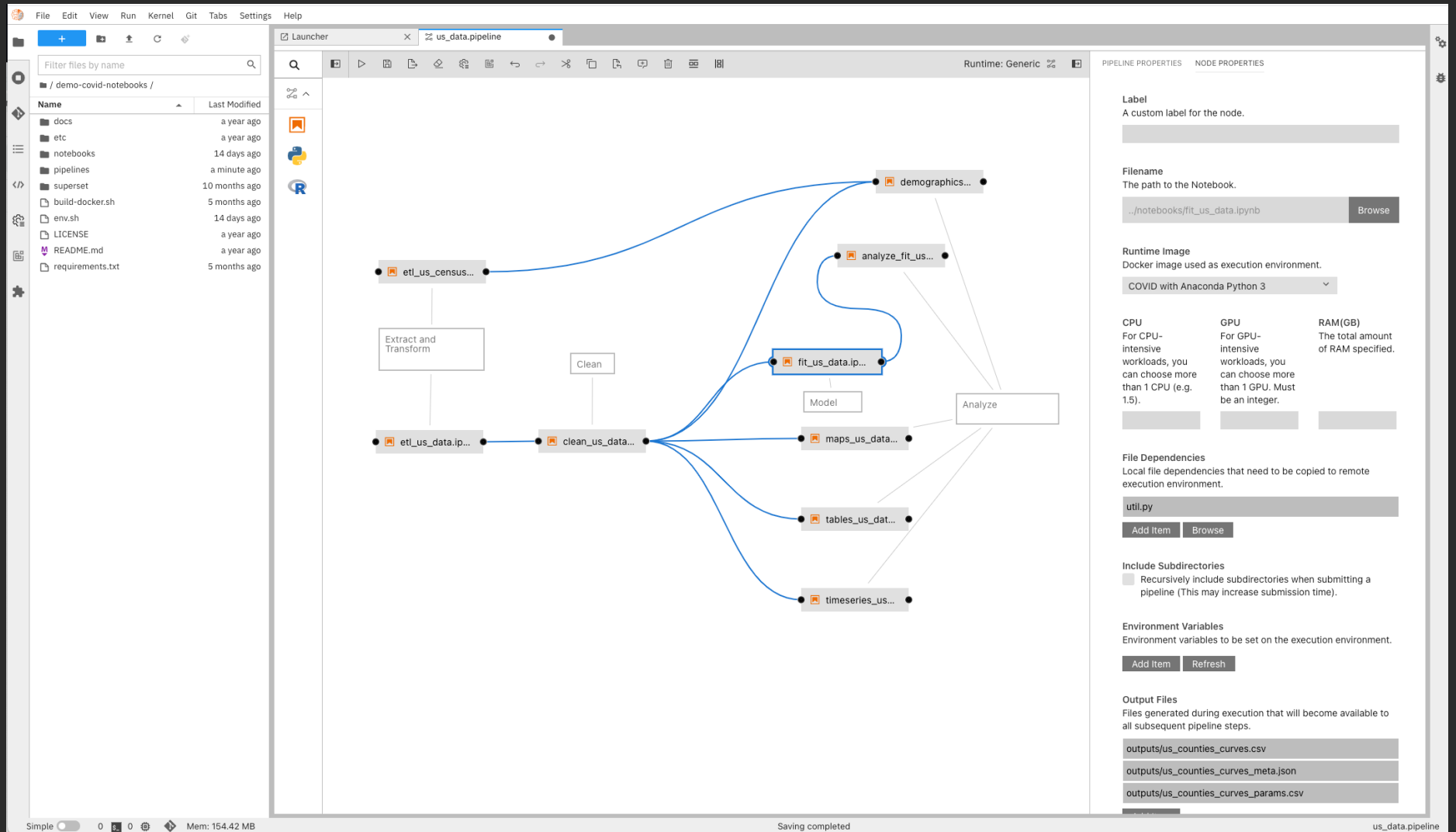
Introducing Elyra-Pipelines

Elyra at LF AI + Data
22nd of September 2022

By The Elyra Community
CODAIT – IBM Center for Open Source Data and AI Technologies
Romeo Kienzler

What is Elyra-Pipelines

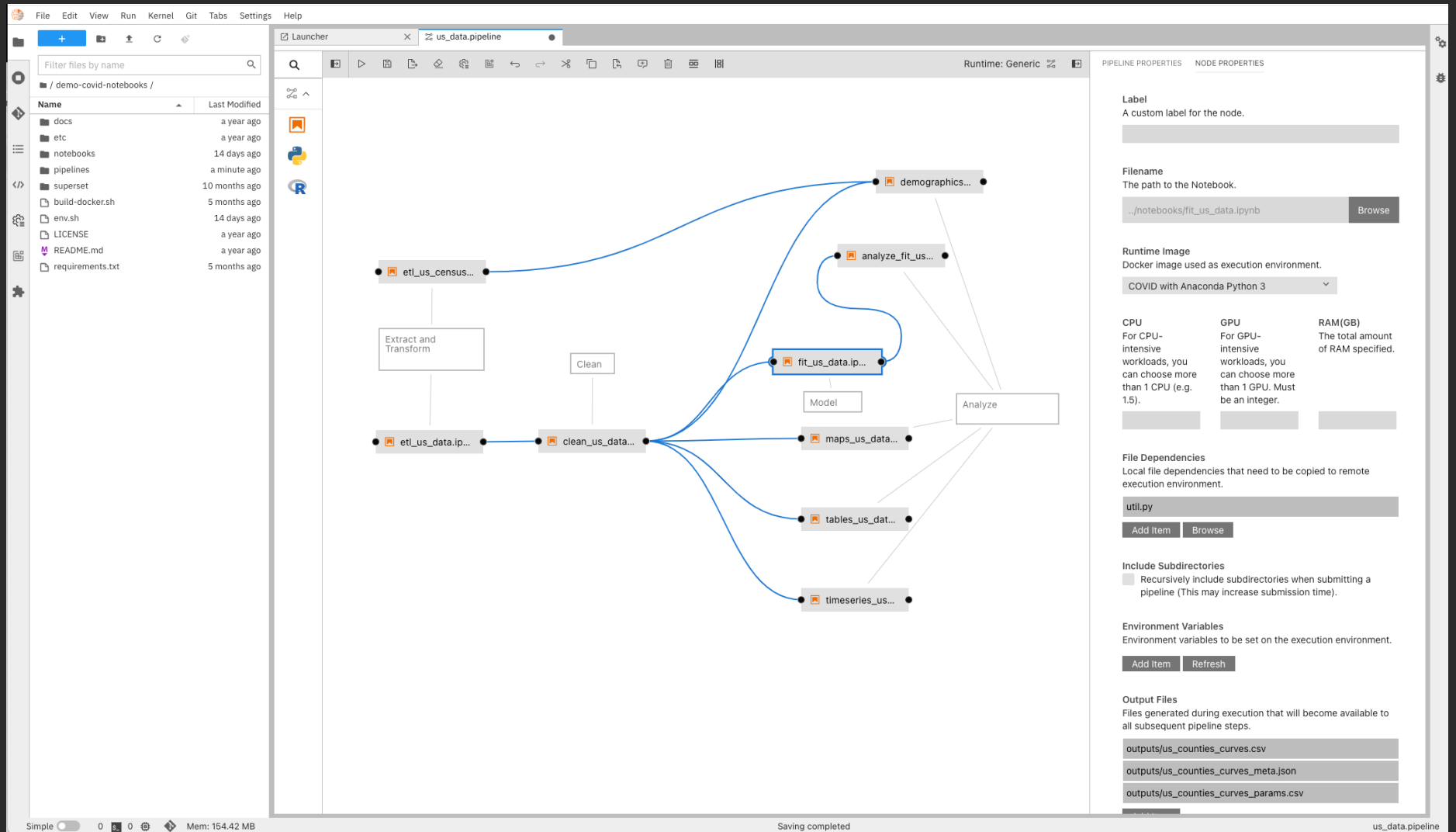
Elyra-Pipelines is a generic No Code / Low Code Data and AI development environment scaling from a developer's notebook to supercomputers



IBM **Developer**

What problem are we trying to solve?

Elyra-Pipelines are agnostic to IDE, Programming Language, Runtime
Just code, drag, drop, reuse, execute, test, deploy, scale, …



IBM **Developer**

Where does it fit in the ecosystem?

As Elyra creates pipelines to be executed on container orchestraing frameworks, any library and technology able to run in a container can become part of an Elyra pipeline. ***Flyte****,* ***Kedro*** *and* ***Ludwig*** *could be integrated as pluggable runtime engine for Elyra Pipelines.*
Kedro *looks most promising.*

Where does it fit in the ecosystem?

Everything in Elyra is pluggable:
Runtimes, Component Libraries, Container Images, Code

Requirement	KF	AF	Slurm	SM	Qsub	HTCondor	Reana
Kubernetes Support	X	X		X		X	X
GPU support	X	X	X	X	X	X	X
Component Library	X						
Reproducibility	X	X		X		X	X
Data Lineage	X						X

Requirement	Nifi	NodeRED	KNIME	Galaxy	Elyra
Kubernetes Support				X	X
GPU support				X	X
Component Library	X	X	X	X	X
Reproducibility	X		X	X	X
Data Lineage	X			X	X
Visual Editing	X	X	X	X	X
Jupyter Notebooks					X

Meet the team (10 core commiters, 22 contributors)

Luciano Resende lresende

Alan Chin akchinSTC

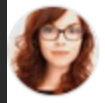
Nick Bourdakos bourdakos1

Alex Bozarth ajbozarth

Martha Cryan marthacryan

Kevin Bates kevin-bates

Patrick Titzler ptitzler


Karla Spuldaro karlaspuldaro

//va vabarbosa

Kiersten Stokes kiersten-stok

Tom Markiewicz tmarkiewicz

Luciano Resende lresende

Thi Nguyen duongnt

LEUCIR leucir

Nick Bourdakos bourdakos1

Romeo Kienzler romeokienzler

Mathew Wicks thesuperzapper

Gerard Casas Saez casassg

aqtang

Jay Ahn jahn96

Neha Gokhale nmgokhale

rachaelhouse

Shreyas Arur dino0509

Kevin Doyle kjdoyle

Kiersten Stokes kiersten-stokes

Yvonne Li yil532

jen-rich

Fellipe Resende fresende

Kiran Pinnipati kpinnipa

aivydang

rasyab66

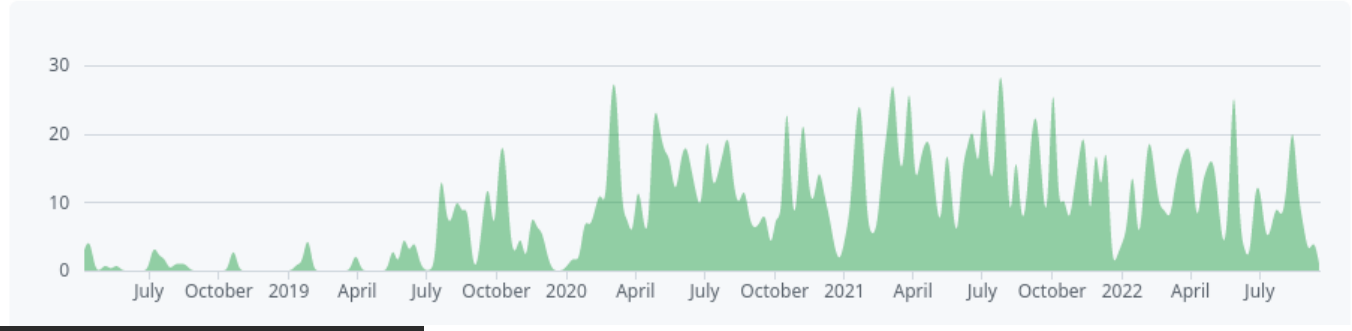
Zeus Courtois zeusorionIBM

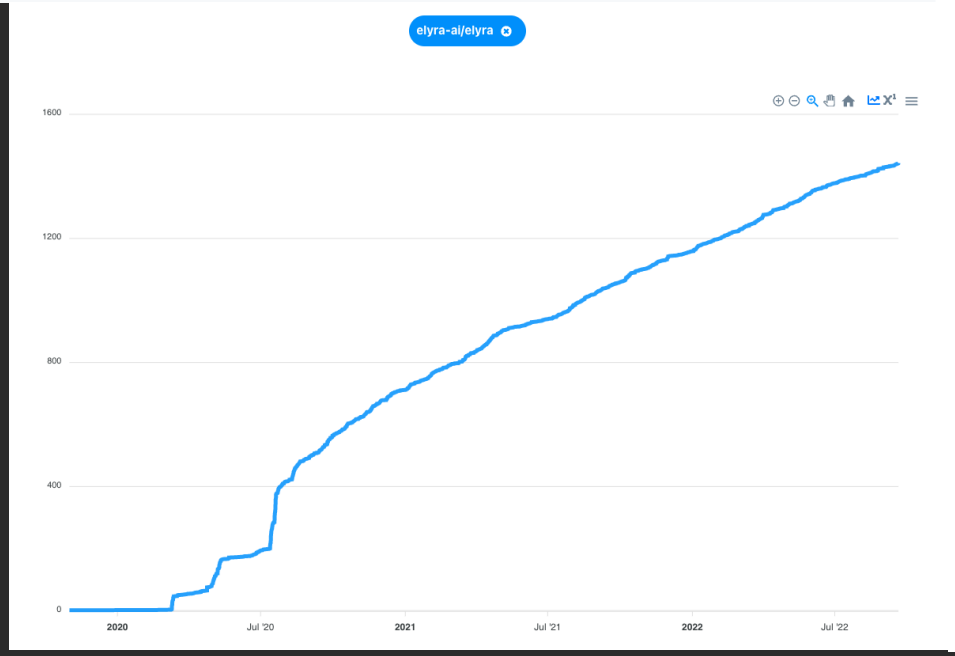
Community Metrics

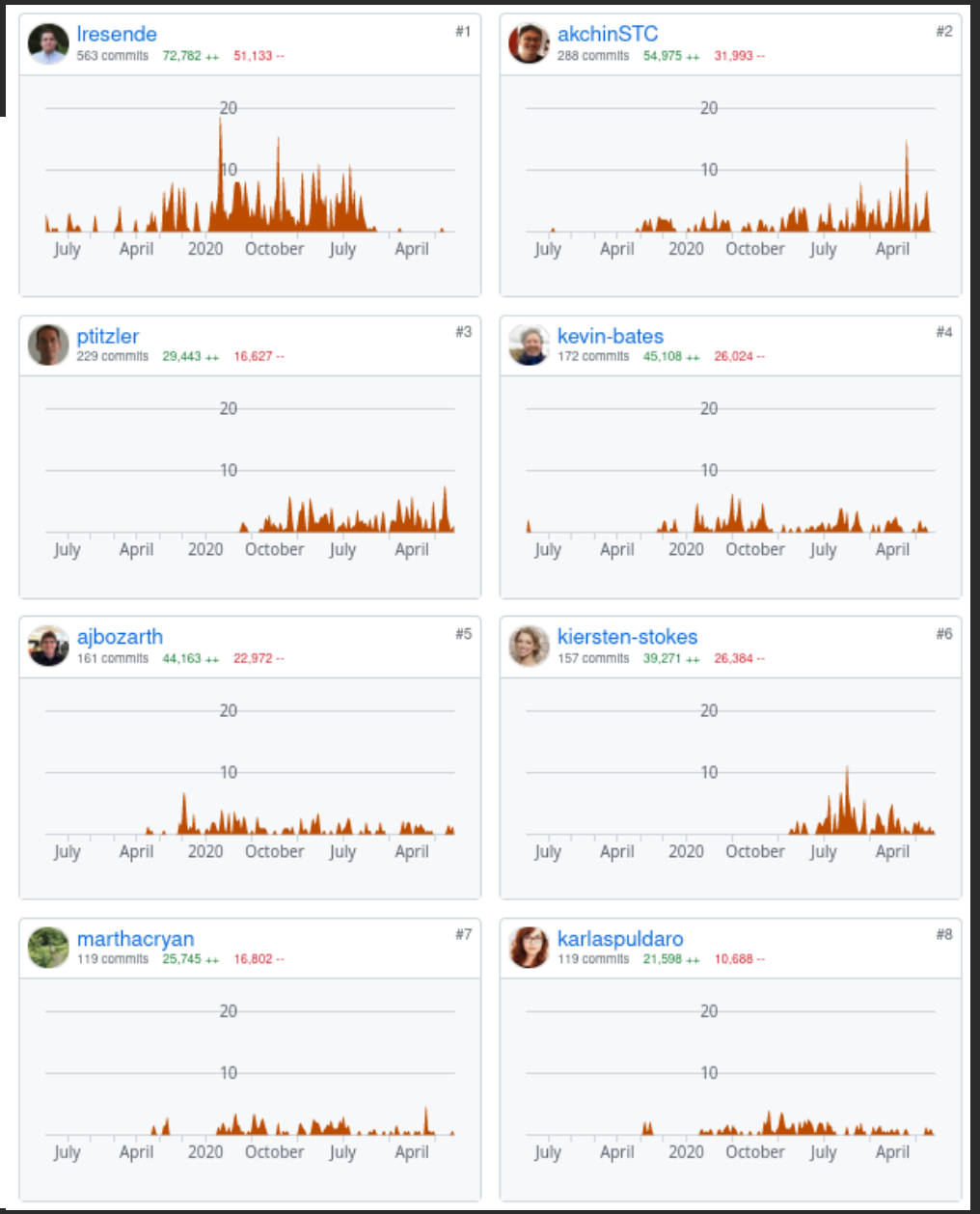
Apr 8, 2018 – Sep 20, 2022

Contributions: Commits

Contributions to main, excluding merge commits and bot accounts

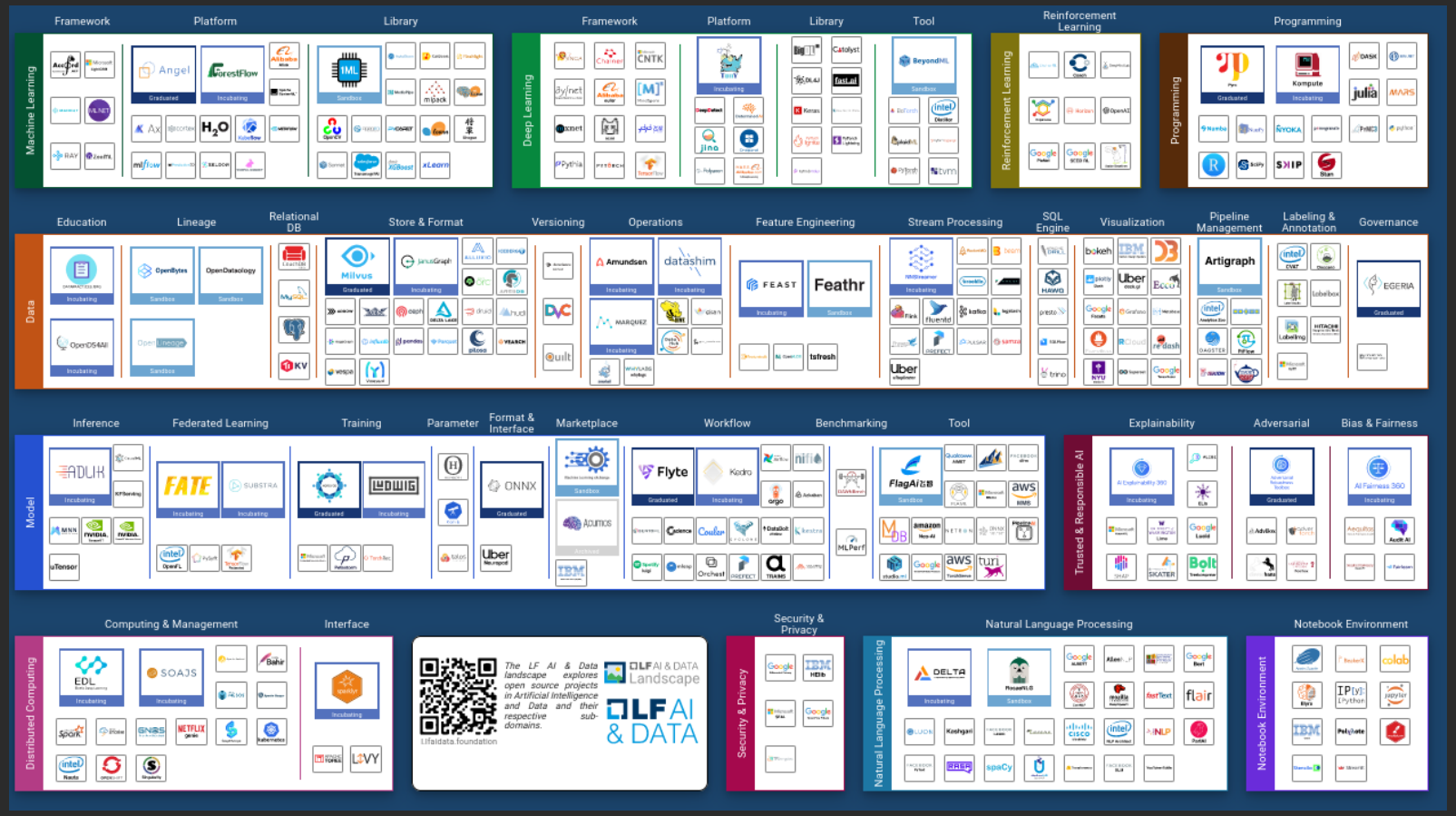






Why would we like to donate Elyra to LF?

IBM has a proven track record in open source with ~1000 open source core commiters and ~5000 open source contributors. Elyra is part of different IBM products. Now community adoption starts. Therefore, Elyra needs a home for open goverance. LF AI is the best fit.



What is our impact to date?

Elyra is part of IBM Cloud Pak for Data, the IBM Research Accelerated Discovery Platform, RedHat Open Data Hub, is used by https://www.americanas.com.br as their central ETL tool, as exploration and rapid prototyping tool at https://www.inventx.ch and https://www.finnova.com, and as a tool for reproducible research at University Hospital Basel. Elyra is currently evaluated by CERN, MIT AI Labs and Deutsche Telekom AG.

finnova.

IX.cloud
SWISS FINANCIAL CLOUD

inventx
BANK ON IT

OPEN DATA HUB
AI Platform powered by Open Source

IBM Research

Universitätsspital Basel

What’s coming next?

- Containerized local execution
- RJSF based dynamic component properties UI rendering
- UX improvements
- Additional runtimes support (Slurm, Snakemake, HTCondor, Reana, DASK)

Formal request

The Elyra authors hereby formally request the incubation of Elyra as a Sandbox Project in LF AI & Data

TAC Vote on Project Proposal: Elyra

Proposed Resolution:

The TAC approves the Elyra Project as an incubation project at the sandbox level of the LF AI Foundation

Upcoming TAC Meetings

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Upcoming TAC Meetings

- October 6, 2022 – Open, requesting topics
- October 20, 2022 – ONNX annual project review, Adlik annual project review

Please note we are always open to special topics as well.

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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