

Machine Learning

Framework

- Accord.NET, Microsoft Action
- Maping Face CANVAS, Microsoft LightGBM
- MAHOUI, ML.NET
- RAY, ZenML

Platform

- Angel (Graduated), ForestFlow (Incubating)
- Open Platform for Enterprise AI (Sandbox)
- H2O, KubeFlow, MEDIANFLOW, mlflow
- Predictor3D, SELDOM, VIVALDI MILEST

Library

- IML, DeepCausality, IREE (Sandbox)
- Recommenders, SapientML (Sandbox)
- Flashlight, MediaPipe
- mipack, OpenCV, CAPET, Learn
- 將軍 Shogun, Sonnet, Salesforce TransmogAI, dmitri XGBoost, xLearn

Deep Learning

Framework

- DeepRec (Sandbox), RYOMA (Sandbox), ShaderNN (Sandbox)
- SINGA, Chainer, CNTK, dy/net, Alibaba Euler, MindSpore, mxnet, ncn, 飞桨 PaddlePaddle, Pythia, PYTORCH, TensorFlow

Platform

- Tony (Incubating)
- DeepDetect, Determined AI, Keras, Chainer, Polyaxon, ONNX, H2O, Alibaba.com

Library

- BigDL, Catalyst, DL4J, fast.ai, Keras, PyTorch Lightning, PyTorchVideo

Tool

- BeyondML (Sandbox)
- BoTorch, Intel Distiller, ploidML, PyTorch Hub

Programming

Programming

- Pyro (Graduated), Kompute (Incubating), DASK, Infer.NET
- julia, MARS, Numba, NumPy, NYOKA
- pi-megranate, PyMC3, python, R, SciPy
- SKIP, Stan

Reinforcement Learning

Reinforcement Learning

- Chainer RL, CleanRL, Coach
- DeepMind Lab, Expensify, Horizon
- OpenAI, Google PlanNet, Google SEED RL
- Stable Baselines

Data

Education

- DATA PRACTICES.ORG (Incubating), OpenDS4All (Incubating)

Lineage

- OpenLineage (Graduated), OpenBytes (Sandbox)
- Open Dataology (Sandbox)

Relational DB

- CouchDB, MySQL, ElephantDB, KV

Store & Format

- docarray (Graduated), Milvus (Graduated), DELTA LAKE (Incubating), JanusGraph (Incubating)
- LakeSoul (Sandbox), ALLUXIO, ICEBERG, ORC, ARESDB, ARROW, HADOOP, HIVE, HDFS, INFLUXDB, KAFKA, Kudu, Parquet, pilosa, StarRocks, Vald, YEARCH, vespa, Vineyard

Versioning

- dot-ci, DVC, Git, Helm, Kustomize, Oulit

Operations

- MARQUEZ (Graduated), Amundsen (Incubating), datashim (Incubating), ckan, Dato Hub, gret, open-telemetry, Mathesar, snort, WHYLABS whylogs

Feature Engineering

- FEAST (Incubating), feathr (Sandbox), Featuretools, Open4DS, tsfresh

Stream Processing

- NNStreamer (Incubating), Rockset, beam, brooklyn, Flink, fluentd, kafka, logstash, Pravega, PULSAR, samza, Uber uReplicator

SQL Engine

- APACHE DRILL, HAWQ, presto, SQLFlow, trino

Visualization

- bakeh, IBM Cognos Design System, plotly Dash, Uber deck.gl, Ecco, Google Facets, Grafana, Metabase, Prometheus, RCloud, reDash, NYU

Pipeline Management

- Artigraph (Sandbox), intel Analytics Zoo, DAGSTER, PIFlow, TEXON, TPOT

Labeling & Annotation

- Xtremel (Sandbox), intel CVAT, Doccano, Labelbox, Labelimg, HITACHI Inspire the Next, Microsoft VOT

Governance

- EGERIA (Graduated), Bitol (Incubating), Unity Catalog (Sandbox), COMBINATION LICENSE AGREEMENT

Model

Inference

- ADLIX (Incubating), kServe (Incubating)
- ChiselML, MNN, NVIDIA TensorRT, NVIDIA TensorRT Inference Server, uTensor

Federated Learning

- FATE (Incubating), Substra (Incubating), OPENFL (Sandbox)
- PySyft, TensorFlow Federated

Training

- AIROVIO (Graduated), deepspeed (Incubating), LEWDIG (Incubating)
- DLRover (Sandbox), Microsoft, Pelastorm, TorchRec

Parameter

- HYPEROPT, Katib, talos

Format & Interface

- ONNX (Graduated), Uber Neuropod, Microsoft Semantic Kernel

Marketplace

- Machine Learning exchange (Sandbox), Acumos (Archived), IBM

Workflow

- Flyte (Graduated), kedro (Incubating), C4TME (Sandbox)
- argo, Azkaban, BENTOML, Cadence, Couler, CYCLORE, DataBolt, kestra, Spotify luigi, mLeap, Orchest, PREFECT, TRAINS, VOLCANO

Benchmarking

- DAWNBench, MLPerf

Tool

- FlagAI 飞智 (Sandbox), Qualcomm AIMET, Facebook dlm, FLAML, Microsoft MMLon, AWS MMS, Amazon Neo-AI, NETR-IN, ONNX Runtime, PipelineAI, studio.ml, Google TensorFlow Federated, AWS TorchServe, turi

Distributed Computing

Computing & Management

- EDL Elastic Deep Learning (Incubating), SOAJS (Incubating), Bahir (Incubating)
- MESOS, Apache Ranger, SPARK, STORM, ARIMA, GNS3, NETFLIX genie, GraphScope, kubernetes, Intel Nauta
- OPENSIFT, Singularity

Interface

- OPEN VOICE INTEROPERABILITY (Incubating), sparklyr (Incubating), ASPIRE TORE, LOVY

Security & Privacy

- Google Differential Privacy, IBM HELIX, Microsoft SEAL, Google TensorFlow Privacy, TFEnergyed

Natural Language Processing

- DELTA (Incubating), RosaeNLG (Sandbox)
- LUON, haystack, Kashgari, FACEBOOK LASER, fastText, flair, ParAI, FACEBOOK Pytest, RASA, spaCy, Transformers, FACEBOOK XLM, YouTokenToMe

Generative AI

- RWKV (Incubating), LLM (Incubating), Open Model Initiative (Sandbox), LangChain, trulens

Notebook Environment

- Elyra (Sandbox), colab, BeakerX, IPython, jupyter, IBM, Polynote, redash, Stencil, Streamlit

Trusted & Responsible AI

- AI Explainability 360 (Incubating), ELIS, Microsoft Responsible AI, UNIVERSITY OF WASHINGTON Line, Google Lucid, SHAP, SKATER, Bolt TreeInterpreter

Adversarial

- Adversarial Robustness Toolbox (Graduated), AdvBox, covder torch, cleverhans, HONOLULU FOOTBALL FOOTBOX

Bias & Fairness

- AI Fairness 360 (Incubating), TRUSTSHARK (Incubating), Intersectional Fairness (Sandbox), Aquitas Bias & Fairness Audit, Audit AI, Standard University, Fairlearn