

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 MARSLEY

Library

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

Deep Learning

Framework

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

Platform

- Tony (Incubating)
- DeepDetect, Determined AI
- Chopanel, Polyaxon
- IBM Watson AI

Library

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

Tool

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

Programming

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

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, ceph, Dragonfly, druid, hudi, HopsGraph, InfluxDB, pandas, Parquet, pilosa, StarRocks, Vald, YEARCH, vespa, Vineyard

Versioning

- dot-ci/dot-ci, DVC, Git, Helm, Kustomize, Ouzt

Operations

- MARQUEZ (Graduated)
- Amundsen (Incubating)
- datashim (Incubating)
- cloudfirst, ckan, Data Hub, gret, gret-operator
- Mathesar, snorl, WHYLABS whylogs

Feature Engineering

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

Stream Processing

- NNSreamer (Incubating)
- RockMQ, 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, DB, plotly Dash, Uber deck.gl, Ecco, Google Facets, Grafana, Metabase, Prometheus, RCloud, re-dash, NYU, Superset, Google TensorBoard

Pipeline Management

- Artigraph (Sandbox)
- Analytics Zoo, DAGSTER, PIFlow, TEKTON, TPOT

Labeling & Annotation

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

Governance

- EGERIA (Graduated)
- Bitol (Sandbox)
- Unity Catalog (Sandbox)

Model

Inference

- ADLIK (Incubating)
- KServe (Incubating)
- CASUALM, MNN, NVIDIA TensorRT, NVIDIA TensorRT, uTensor

Federated Learning

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

Training

- Horovod (Graduated)
- LEWIS (Incubating)
- deepspeed, DLROver, Microsoft, Petastorm, TorchRec

Parameter

- HYPERBOT, Katib, talos

Format & Interface

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

Marketplace

- Machine Learning Exchange (Sandbox)
- Acumos (Archived)
- IBM

Workflow

- Flyte (Graduated)
- kedro (Incubating)
- LA-TIME-D (Sandbox)
- airflow, nifi, DAWNbench, MLPerf
- argo, Azkaban, BENTONL, Cadence, Couler, CYCLONE, DataBolt, kestra, Spotify luigi, mLeap, Orchest, PREFECT, TRAINS, volcano

Benchmarking

- FlagAI 飞智 (Sandbox)
- MLPerf

Tool

- Qualcomm AIMET, Facebook dlm, AWS MMS, FLAML, Microsoft, Amazon Neo-AI, NETR, ONNX Runtime, PipelineAI, studio.ml, Google, AWS TorchServe, turi

Distributed Computing

Computing & Management

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

Interface

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

Security & Privacy

- Google Differential Privacy, HELIX, Microsoft SEAL, Google TensorFlow Privacy, TFEvgeniy

Natural Language Processing

- DELTA (Incubating)
- RosaeNLG (Sandbox)
- Google ALBERT, Allen NLP, Google Bert, fastText, flair, LUON, haystack, Kashgari, FACEBOOK LASER, fastText, intel NLP Architect, NLP, ParAI, FACEBOOK Pytest, RASA, spaCy, Transformers, FACEBOOK XLM, YouTokenToMe

Generative AI

- RWKV (Incubating)
- Monocle (Sandbox)
- trulens

Notebook Environment

- Elyra (Sandbox)
- colab, BeakerX, jupyter, IBM, Polynote, IP[y]: IPython, Stencil, Streamlit, redash

Trusted & Responsible AI

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

Adversarial

- Adversarial Robustness Toolbox (Graduated)
- AdvBox, CoverTorch, cleverhans, Foolbox

Bias & Fairness

- AI Fairness 360 (Incubating)
- TRUSTSHARK (Incubating)
- Intersectional Fairness (Sandbox)
- Aequitas, Audit AI, Standard University, Fairlearn