

Machine Learning

Framework

- Accord.NET, Microsoft Azure ML, Hugging Face CANN, Microsoft LightGBM, MAHOUT, ML.NET, Open Platform Enterprise RAY, ZenML

Platform

- Angel (Graduated), ForestFlow (Incubating), Alibaba Ailink, Apache SystemML, AX, cortex, H2O, Kubeflow, METASOFT, mlflow, PredictionIO, SELDOVA, YONPAL WABBIT

Library

- 1ML, DeepCausality, Recommenders (Sandbox), SapientML, AutoGluon, CatBoost, Flashlight, MediaPipe, mipack, OpenCV, opencv_contrib, CARPET, LeCun, 將軍 Shogun, Sonnet, salesforce TransmogitAI, dmrc XGBoost, xLearn

Deep Learning

Framework

- DeepRec (Sandbox), ShaderNN (Sandbox)

Platform

- Tony (Incubating)

Library

- BigDL, Catalyst, DL4J, fast.ai, SINGA, Chainer, CNTK, dy/net, DeepDetect, Determined AI, Keras, MXNet, Alibaba eulder, MindSpore, mxnet, ncnn, jina, Onepanel, Pythia, PYTORCH, TensorFlow

Programming

Tool

- BeyondML (Sandbox)

Programming

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

Reinforcement Learning

- Chainer RL, CleanRL, Coach, DeepMind Lab, Dopamine, 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, KV

Store & Format

- Milvus (Graduated), docarray (Incubating), JanusGraph (Incubating), LakeSoul (Sandbox), ALLUXIO, ICEBERG, ORC, ARESDB, ARROW, Delta Lake, CEPH, DELTA LAKE, DRUID, HUDI, HUGEGRAPH, INFLUXDB, PANDAS, PARQUET, PILOSA, StarRocks, Valid, VEARCH, vespa, Vineyard

Versioning

- dotciencia dotciencia, DVC, PylearnML, oult

Operations

- MARQUEZ (Graduated), Amundsen (Incubating), datashim (Incubating), Mathesar, snoriel, WHYLABS whylogs

Feature Engineering

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

Stream Processing

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

SQL Engine

- ARABIC DRILL, HAWQ, presto, SQLFlow, trino

Visualization

- bokeh, IBM, Uber deck.gl, Ecco, Google Facets, Grafana, Metabase, Prometheus, RCloud, re dash, NYU, Superset, Google

Pipeline Management

- Artigraph (Sandbox), Intel Analytics Zoo, DAGSTER, PIFLOW, TEKTON, TRITON

Labeling & Annotation

- Xtremel (Sandbox), Intel CVAT, Doccano, Label Studio, Labelbox, Labeling, HITACHI Inspire the Next, Microsoft WTT

Governance

- EGERIA (Graduated), Bitol (Sandbox)

Model

Inference

- ADLIX (Incubating), KServe (Incubating), CausalML, MNN, NVIDIA TensorRT, NVIDIA, uTensor, vLLM

Federated Learning

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

Training

- KORONOS (Graduated), LEWDIG (Incubating), deeppspeed, Microsoft, Petastorm, TorchRec, talos

Parameter

- HYPEROPT, Katib, talos

Format & Interface

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

Marketplace

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

Workflow

- Flyte (Graduated), kedro (Incubating), G-A-I-M-E-D (Sandbox), Airflow, nifi, argo, Azkaban, BENTOML, Cadence, Couler, CYCLONE, DataBolt, kestra, Spotify luigi, mLeap, Orchest, PREFECT, TRAINS

Benchmarking

- MLPerf, DAWN Bench

Tool

- FlagAI 伏羲 (Sandbox), Qualcomm AIMET, Facebook dnn, FLAML, Microsoft, AWS MMS, Amazon Neo-AI, NETRON, ONNX Runtime, PipelineAI, studio.ml, Google, AWS TorchServe, turi

Data

- RWKV (Incubating)

Distributed Computing

Computing & Management

- EDL Elastic Deep Learning (Incubating), SOAJS (Incubating), Spark, Bahir, MESOS, Apache Ranger, sparklyr (Incubating), TORRE, LUYV

Interface

- OPEN VOICE INTEROPERABILITY (Incubating), sparklyr (Incubating), TORRE, LUYV

Security & Privacy

- Google Differential Privacy, IBM HElib, Microsoft SEAL, Google TensorFlow Privacy, TFencrypted

Natural Language Processing

Natural Language Processing

- DELTA (Incubating), RosaeNLG (Sandbox), Google ALBERT, AllenNLP, Google Bert, ConNLP, mozilla DeepSpeech, fastText, flair, LUON, haystack, Kashgari, Facebook LASER, LUCAS, CISCO MindMall, Intel NLP Architect, NLP, ParAI, Facebook Pynt, RASA, spaCy, Transformers, Facebook XLM, YouTokenToMe

Notebook Environment

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- Elyra (Sandbox), Apache Zeppelin, BeakerX, colab, ENVD, IPython, jupyter, IBM, Polynote, Stencil, Streamlit

Trusted & Responsible AI

Explainability

- AI Explainability 360 (Incubating), ALIBI, Captum, ELIS, Microsoft, University of Washington Lime, Google Lucid, SHAP, SKATER, Bolt TreeInterpreter, trulens

Adversarial

- Adversarial Robustness Toolbox (Graduated), AdvBox, Adversarial Torch

Bias & Fairness

- AI Fairness 360 (Incubating), OPEN VOICE TRUSTMARK (Incubating), Intersectional Fairness (Sandbox), Aequitas Bias & Fairness Audit, Audit AI, Fairlearn