

Machine Learning	<b>Framework</b> Accord.NET, Microsoft Azure ML, Hugging Face, Microsoft LightGBM, MAHOUI, ML.NET, RAY, ZenML	<b>Platform</b> Angel (Graduated), ForestFlow (Incubating), Open Platform for Enterprise AI (Sandbox), H2O, KubeFlow, MEDIANFLOW, mlflow, Predictator3D, SELDOM, VIZUAL MARSLET	<b>Library</b> T.ML (Sandbox), DeepCausality (Sandbox), IREE (Sandbox), Recommenders (Sandbox), SapientML (Sandbox), AutoGluon, CatBoost, Flashlight, MediaPipe, mipack, Learn, OpenCV, OpenFlow, PACET, Learn, 將軍, Sonnet, salesforce, dmitriy, XGBoost, xLearn		
	Deep Learning	<b>Framework</b> DeepRec (Sandbox), RYOMA (Sandbox), ShaderNN (Sandbox)	<b>Platform</b> SINGA, Chainer, CNTK, ay/net, Alibaba Euler, MindSpore, mxnet, ncn, 飞桨, Pythia, PYTORCH, TensorFlow	<b>Library</b> BigDL, Catalyst, DL4J, fast.ai, Keras, PyTorch Lightning, PyTorch, PyTorch Video	<b>Tool</b> BeyondML (Sandbox), BoTorch, Intel Distiller, ploidML, PyTorch Hub
		Programming	<b>Programming</b> Pyro (Graduated), Kompute (Incubating), DASK, Infer.NET, Julia, MARS, Numba, NumPy, NYOKA, pi-megranate, PyMC3, python, R, SciPy, SKIP, Stan		
			Reinforcement Learning	<b>Reinforcement Learning</b> Chainer RL, CleanRL, Coach, DeepMind Lab, Dopamine, Horizon, OpenAI, Google PlaNet, Google SEED RL, Stable Baselines	

Data	<b>Education</b> DataPractices.org (Incubating), OpenDS4All (Incubating)	<b>Lineage</b> OpenLineage (Graduated), OpenBytes (Sandbox)	<b>Relational DB</b> CouchDB, MySQL, KV	<b>Store &amp; Format</b> docarray (Graduated), Milvus (Graduated), DELTA LAKE (Incubating), JanusGraph (Incubating), LakeSoul (Sandbox), ALLUXIO, ICEBERG, ORC, ARESDB, ARROW, XRD, ceph, Dragonfly, druid, hudi, HopsGraph, InfluxDB, pandas, Parquet, pilosa, StarRocks, Vald, YEARCH, vespa, Vineyard	<b>Versioning</b> dotaience, DVC, DataHub, Oulit	<b>Operations</b> MARQUEZ (Graduated), Amundsen (Incubating), datashim (Incubating), ckan, Dato, great-expectations, Mathesar, snortel, WHYLABS whylogs	<b>Feature Engineering</b> FEAST (Incubating), feathr (Sandbox), Featuretools, Open4DS, tsfresh	<b>Stream Processing</b> NNSreamer (Incubating), Rockset, beam, brooklyn, Flink, fluentd, kafka, logstash, Pravega, PULSAR, samza, Uber uReplicator	<b>SQL Engine</b> APACHE DRILL, HAWQ, presto, SQLFlow, trino	<b>Visualization</b> bakeh, IBM, Uber dash, deck.gl, Ecco, Google Facets, Grafana, Metabase, Prometheus, RCloud, re-dash, NYU, Superset, Google TensorBoard	<b>Pipeline Management</b> Artigraph (Sandbox), Intel, Analytics Zoo, DAGSTER, PIFlow, TEXON, TPOT	<b>Labeling &amp; Annotation</b> Xtremel (Sandbox), Intel CVAT, Doccano, Labelbox, Labelimg, HITACHI, Microsoft VOT	<b>Governance</b> EGERIA (Graduated), Bitol (Incubating), Unity Catalog (Sandbox), Microsoft Purview
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Model	<b>Inference</b> ADLIX (Incubating), kServe (Incubating), Clarifai ML, MNN, NVIDIA TensorRT, NVIDIA TensorRT, TensorFlow Serving, uTensor	<b>Federated Learning</b> FATE (Incubating), Substra (Incubating), OPENFL (Sandbox), PySyft, TensorFlow Federated	<b>Training</b> AIRFLOW (Graduated), deepspeed (Incubating), LEWDIG (Incubating), DLROVER (Sandbox), Microsoft, Pelastorm, TorchRec	<b>Parameter</b> HYPEROPT, Katib, talos	<b>Format &amp; Interface</b> ONNX (Graduated), Uber NeuroPod, Microsoft Semantic Kernel	<b>Marketplace</b> Machine Learning exchange (Sandbox), Acumos (Archived), IBM	<b>Workflow</b> Flyte (Graduated), kedro (Incubating), C4TME, argo, Azkaban, BENTOML, Cadence, Couler, CYCLORE, DataBolt, kestra, Spotify luigi, mLeap, Orchest, PREFECT, TRAINS	<b>Benchmarking</b> DAWNBench, MLPerf	<b>Tool</b> FlagAi (Sandbox), Qualcomm AIMET, Facebook dlm, FLAML, Microsoft MMS, AWS MMS, Amazon Neo-AI, NETR-IN, ONNX Runtime, Pipeline AI, studio.ml, Google TensorFlow, AWS TorchServe, turi
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Distributed Computing	<b>Computing &amp; Management</b> EDL (Incubating), SOAJS (Incubating), Bahir (Incubating), MESOS, Apache Ranger, spark, STORM, ANANDA, GNS3, NETFLIX genie, GraphScope, kubernetes, Intel Nauta, OPENSIFT, Singularity	<b>Interface</b> OPEN VOICE INTEROPERABILITY (Incubating), sparklyr (Incubating), ASPIRE TORE, LOVY	<b>Security &amp; Privacy</b> Google Differential Privacy, IBM HELIX, Microsoft SEAL, Google TensorFlow Privacy, TFEnergyed	Natural Language Processing	<b>Natural Language Processing</b> DELTA (Incubating), RosaeNLG (Sandbox), Google ALBERT, Allen NLP, Google Bert, ConNLP, mozilla, fastText, flair, LUON, haystack, Kashgari, Facebook LASER, fastNLP, intel NLP Architect, ParAI, Facebook Pytest, RASA, spaCy, Transformers, Facebook XLM, YouTokenToMe	Generative AI	<b>Models</b> RWKV (Incubating), Open Model Initiative (Sandbox)	<b>Tools</b> LLM (Incubating), Monocle (Sandbox), LangChain, trulens	Notebook Environment	<b>Notebook Environment</b> Elyra (Sandbox), colab, BeakerX, ENVD, IPython, jupyter, IBM, Polynote, redash, Stencil, Streamlit, PyTorch	Trusted & Responsible AI	<b>Explainability</b> AI Explainability 360 (Incubating), ELIS, Microsoft, University of Washington Line, Google Lucid, SHAP, SKATER, Bolt TreeInterpreter	<b>Adversarial</b> Adversarial Robustness Toolbox (Graduated), AdvBox, Cover Torch	<b>Bias &amp; Fairness</b> AI Fairness 360 (Incubating), TRUSTMARK (Incubating), Intersectional Fairness (Sandbox), Aquitas, Audit AI, Standard University, Fairlearn
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