

Machine Learning	Framework	Platform	Library	Deep Learning	Framework	Platform	Library	Tool	Programming	Reinforcement Learning
	<ul style="list-style-type: none"> Accord.NET Microsoft Azure ML Hugging Face CANDLE Microsoft LightGBM MANOUT ML.NET Open Platform for Enterprise AI RAY ZenML 	<ul style="list-style-type: none"> Angel ForestFlow Alibaba Alink Apache SystemML AX cortex H₂O Kubeflow MERAFLOW mlflow Predictor3D SELDON VIVALDI WABBY 	<ul style="list-style-type: none"> 1ML DeepCausality Recommenders SapientML AutoGluon CarBoost Flashlight MediaPipe mpack OpenCV OpenML CPAET Learn 將軍 Shogun Sonnet salesforce TransmogrifAI dmk XGBoost xLearn 		<ul style="list-style-type: none"> DeepRec ShaderNN SINGA Chainer Microsoft CNTK dy/net Alibaba euler [M]² MindSpore mxnet ncnn Pythia PYTORCH TensorFlow 	<ul style="list-style-type: none"> BigDL Catalyst DL4J fast.ai Keras PyTorch Ignite PyTorch Lightning PyTorchVideo 	<ul style="list-style-type: none"> BeyondML BoTorch intel Distiller ploidML PyTorch Hub PyTorch tvm 	<ul style="list-style-type: none"> Pyro Kompute DASK IntelNET julia MARS Numba NumPy NYOKA pymcgrate PyMC3 python R SciPy SKIP Stan 		

Data	Education	Lineage	Relational DB	Store & Format	Versioning	Operations	Feature Engineering	Stream Processing	SQL Engine	Visualization	Pipeline Management	Labeling & Annotation	Governance
	<ul style="list-style-type: none"> DATA PRACTICES.ORG Incubating OpenDS4All Incubating 	<ul style="list-style-type: none"> OpenLineage Graduated OpenBytes Sandbox Open Dataology Sandbox 	<ul style="list-style-type: none"> CouchDB MySQL KV 	<ul style="list-style-type: none"> Milvus Graduated docarray Incubating JanusGraph Incubating LakeSoul Sandbox ALLUXIO ICEBERG ORC AREDSB ARROW DELTA LAKE Dragonfly druid hudi HugeGraph Influxdb pandas Parquet pilosa StarRocks Valid YEARCH vespa Vineyard 	<ul style="list-style-type: none"> distadance DVC datashim Incubating quilt Mathesar snoriel WHYLABS whylogs 	<ul style="list-style-type: none"> MARQUEZ Graduated Amundsen Incubating datashim Incubating FEAST Incubating feathr Sandbox Featuretools ML OpenADS tsfresh 	<ul style="list-style-type: none"> NNStreamer Incubating Flink fluentd kafka logstash PREFECT PULSAR samza Uber uReplicator 	<ul style="list-style-type: none"> DRILL HAWQ presto SQLFlow trino 	<ul style="list-style-type: none"> bakeh plotly Dash Uber deck.gl Ecco Google Facets Grafana Metabase Prometheus RCloud re-dash NYU Superset Google Tableau 	<ul style="list-style-type: none"> Artigraph Sandbox Analytics Zoo DAGSTER PIFlow TENKON TPOT 	<ul style="list-style-type: none"> Xtremel Sandbox Labelbox LabelImg HITACHI Inspire the Next Microsoft VOT 	<ul style="list-style-type: none"> EGERIA Graduated Bitol Sandbox IBM CVAT Doccano Microsoft VOT 	

Model	Inference	Federated Learning	Training	Parameter	Format & Interface	Marketplace	Workflow	Benchmarking	Tool	Data
	<ul style="list-style-type: none"> ADLIK Incubating KServe Incubating CaixaML MNN NVIDIA TensorRT NVIDIA TensorRT uTensor LLM 	<ul style="list-style-type: none"> FATE Incubating Substra Incubating OPENFL Sandbox PySyft TensorFlow Federated 	<ul style="list-style-type: none"> Horovod Graduated LEWDIG Incubating deepsped Microsoft TensorFlow on Azure Petastorm TorchRec 	<ul style="list-style-type: none"> HyperSort Katib talos 	<ul style="list-style-type: none"> ONNX Graduated Uber Neuropod Microsoft Cognitive Toolkit 	<ul style="list-style-type: none"> Machine Learning Exchange Sandbox IBM 	<ul style="list-style-type: none"> Acumos Archived 	<ul style="list-style-type: none"> Flyte Graduated kedro Incubating CLAYME-D Sandbox Airflow nifi argo Azaban BENTONML Cadence Couler CYCLONE DataBolt dltflow kestra Spotify luigi mleap Orchest PREFECT TRAINS YAML 	<ul style="list-style-type: none"> DAWN Bench MLPerf 	<ul style="list-style-type: none"> FlagAI 智 Sandbox Quicowa AIMET FLAML Microsoft MMLoss aws MMS MB amazon Neo-AI NETR-ON ONNX RUNTIME PipelineAI studio.ml Google TensorFlow Hub aws TorchServe turi

Distributed Computing	Computing & Management	Interface	Security & Privacy	Natural Language Processing	Notebook Environment	Trusted & Responsible AI	Explainability	Adversarial	Bias & Fairness
	<ul style="list-style-type: none"> EDL Elastic Deep Learning Incubating MESOS Apache Ranger SPARK STORM GNSS NETFLIX genie GraphScope kubernetes Nauta OPENSHIFT Singularity 	<ul style="list-style-type: none"> SOAJS Incubating Bahir OPEN VOICE INTEROPERABILITY Incubating sparklyr Incubating APACHE TOREE LIV 	<ul style="list-style-type: none"> Google Differential Privacy IBM HElib Microsoft SEAL Google TensorFlow Privacy TFEnrypted 				<ul style="list-style-type: none"> DELTA Incubating Luon haystack Kashgari FACEBOOK LASER RASA spaCy ParAI FACEBOOK PyTorch IBM Watson Transformers FACEBOOK XLNet YouTube TLM 	<ul style="list-style-type: none"> Elyra Sandbox colab IP[y]: IPython jupyter Streamlit BeakerX ENVO polynote 	<ul style="list-style-type: none"> AI Explainability 360 Incubating ELIS Microsoft InterpretML W UNIVERSITY OF WASHINGTON Lime Google Lucid SHAP SKATER Bolt Treeinterpreter trulens