

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 MESAFlow mlflow Predictor3D SELDOW VIRNAL HAREBY 	<ul style="list-style-type: none"> 1ML DeepCausality Recommenders SapientML AutoGluon CarBoost Flashlight MediaPipe mpack Leavr OpenCV OpenML CAFET Leavr 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"> TONY DeepDetect Determined AI jina Onepanel Polyaxon HEBIAI Alibaba.com 	<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 PyTorchGraph PyTorch tvm 	<ul style="list-style-type: none"> Pyro Kompute DASK InterML julia MARS Numba NumPy NYOKA pymcgrate PyMC3 python R SciPy SKIP Stan 	<ul style="list-style-type: none"> CleanRL Coach DeepMind Lab Dopamine Horizon OpenAI Google PlaNet Google SEED RL State Baselines

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 OpenDS4All 	<ul style="list-style-type: none"> OpenLineage OpenBytes OpenDataology 	<ul style="list-style-type: none"> CouchDB MySQL KV 	<ul style="list-style-type: none"> Milvus docarray JanusGraph LakeSoul ALLUXIO ICEBERG ORC AREDSB ARROW DELTA LAKE Dragonfly druvid hudi HugeGraph Influxdb pandas Parquet pilosa StarRocks Valid YEARCH vespa Vineyard 	<ul style="list-style-type: none"> datascience connect DVC datashim quilt Mathesar snoriel WHYLABS whylogs 	<ul style="list-style-type: none"> MARQUEZ Amundsen datashim Mathesar snoriel WHYLABS whylogs 	<ul style="list-style-type: none"> FEAST feathr Featuretools ML OpenMLDS tsfresh 	<ul style="list-style-type: none"> NNStreamer beam brocklin Flink fluentd kafka logstash Pravega PREFECT PULSAR samza Uber uReplicator 	<ul style="list-style-type: none"> GRILL HAWQ presto SQLFlow trino 	<ul style="list-style-type: none"> bakeh plotly Dash Uber deck.gl Ecco Google Facets Grafana Metabase Prometheus RCloud redash NYU Superset Google Tableau 	<ul style="list-style-type: none"> Artigraph Analytics Zoo intel Analysis Zoo DAGSTER PIFlow TENON TPOT 	<ul style="list-style-type: none"> Xtremel Labelbox LabelImg HITACHI Inspire the Next Microsoft VOT 	<ul style="list-style-type: none"> EGERIA Bitol

Model	Inference	Federated Learning	Training	Parameter	Format & Interface	Marketplace	Workflow	Benchmarking	Tool	Data
	<ul style="list-style-type: none"> ADLIK KServe CaixaML MNN NVIDIA TensorRT NVIDIA TensorRT uTensor LLM 	<ul style="list-style-type: none"> FATE Substra OPENFL PySyft TensorFlow Federated 	<ul style="list-style-type: none"> Horovod LEWDIG deepspeed Microsoft PyTorch Petastorm TorchRec 	<ul style="list-style-type: none"> HYPERMART KATIB talos 	<ul style="list-style-type: none"> ONNX Uber Neupod Microsoft ONNX Runtime 	<ul style="list-style-type: none"> Machine Learning Exchange Acumos IBM 	<ul style="list-style-type: none"> Flyte kedro CLAYME Airflow nifi argo Azaban BENTONML Cadence Couler CYCLONE DataBolt dltflow kestra Spotify ligi mleap Orchest PREFECT TRAINS 	<ul style="list-style-type: none"> DAWN Bench MLPerf 	<ul style="list-style-type: none"> FlagAI 智 Qualcomm AIMET FLAML Microsoft MMLoss amazon Neo-AI NETR-N ONNX RUNTIME studio.ml Google TensorFlow Hub aws TorchServe turi 	<ul style="list-style-type: none"> FACEBOOK firm aws MMS PipelineAI RWK LANGUAGE VOICE

Distributed Computing	Computing & Management	Interface	Security & Privacy	Natural Language Processing	Notebook Environment	Explainability	Adversarial	Bias & Fairness
	<ul style="list-style-type: none"> EDL Elastic Deep Learning SOAJS Apache Ambari Bahir MESOS Apache Ranger spark STORM ARKAD GNSS NETFLIX genie GraphScope kubernetes intel Nauta OPENSHIFT Singularity 	<ul style="list-style-type: none"> OPEN VOICE INTEROPERABILITY sparklyr APACHE TORRE LAVY 	<ul style="list-style-type: none"> Google Differential Privacy IBM HElib Microsoft SEAL Google TensorFlow Privacy TFEncrypted 	<ul style="list-style-type: none"> DELTA RosaeNLG Google ALBERT AllenNLP Google Bert LUON haystack Kashgari FACEBOOK LASER fastText flair ParAI FACEBOOK PyTorch RASA spaCy TRANSFORMERS FACEBOOK XLNet YouTubeToMe 	<ul style="list-style-type: none"> Elyra colab BeakerX IP[y]: IPython jupyter ENVO Streamlit Stencilio Streamlit 	<ul style="list-style-type: none"> AI Explainability 360 ELIS Google Lucid Bolt ALIBI Captum Microsoft InterpretML UNIVERSITY OF WASHINGTON Lime SKATER trulens 	<ul style="list-style-type: none"> Adversarial Robustness Toolbox AdvBox advers torch FOOTBALL 	<ul style="list-style-type: none"> AI Fairness 360 Intersectional Fairness Aequitas Bias & Fairness Audit Audit AI Open Voice TRUSTMARK SanDiegoUniversity Fairlearn