

Machine Learning			Deep Learning				Programming			Reinforcement Learning		
Framework	Platform	Library	Framework	Platform	Library	Tool	Programming	Programming	Programming	Reinforcement Learning	Reinforcement Learning	Reinforcement Learning
<ul style="list-style-type: none"> Accord.NET Microsoft Action Mapbox Microsoft LightGBM MAHOUI ML.NET RAY ZenML 	<ul style="list-style-type: none"> Angel ForestFlow Open Platform for Enterprise AI H2O KubeFlow MLflow 	<ul style="list-style-type: none"> IML DeepCausality IREE Recommenders SapientML mipack OpenCV xLearn 	<ul style="list-style-type: none"> DeepRec RYOMA ShaderNN SINGA Chainer CNTK dy/net Alibaba eulor MindSpore mxnet ncnn Pythia PYTORCH TensorFlow 	<ul style="list-style-type: none"> Tony DeepDetect Determined AI Chopwell Polyaxon 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 PyTorch tvm 	<ul style="list-style-type: none"> Pyro Kompute DASK InferNET Julia MARS Numba NumPy NYOKA pi-megranate PyMC3 python R SciPy SKIP Stan 	<ul style="list-style-type: none"> Chainer RL CleanRL Coach DeepMind Lab Expensify Horizon OpenAI Google PlanNet Google SEED RL Stable Baselines 				

Data		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 EL KV 	<ul style="list-style-type: none"> docarray LakeSoul pandas Parquet pitosa StarRocks Vald VEARCH vespa Vineyard 	<ul style="list-style-type: none"> MILVUS DELTA LAKE JanusGraph ARROW INFLUXDB Whylogs 	<ul style="list-style-type: none"> dot-ci DVC data-shim Mathesar snorl WHYLABS 	<ul style="list-style-type: none"> MARQUEZ Amundsen FEAST feathr Featuretools Open4DS tsfresh 	<ul style="list-style-type: none"> NNStramer brooklyn Flink fluentd PREFACT Uber uReplicator 	<ul style="list-style-type: none"> RockMQ beam kafka logstash PULSAR samza 	<ul style="list-style-type: none"> APACHE DRILL HAWQ presto SQLFlow trino 	<ul style="list-style-type: none"> bakeh IBM Uber deck.gl ECCO Google Facets Grafana Metabase re-dash NYU Superset Google TensorBoard 	<ul style="list-style-type: none"> Artigraph Analytics Zoo DAGSTER PIFlow TEKTON TRIDENT 	<ul style="list-style-type: none"> Xtremel Doccano Labelbox Labelimg HITACHI Microsoft VOT 	<ul style="list-style-type: none"> EGERIA Bitol Unity Catalog 												

Model		Federated Learning		Training		Parameter		Format & Interface		Marketplace		Workflow		Benchmarking		Tool	
<ul style="list-style-type: none"> ADLIK KServe CAUSALML MNN NVIDIA TensorRT NVIDIA TensorRT uTensor 	<ul style="list-style-type: none"> FATE Substra OPENFL PySyft TensorFlow Federated 	<ul style="list-style-type: none"> DLRover deepseed Microsoft Petastorm TorchRec 	<ul style="list-style-type: none"> HYPERSHOT Katib talos 	<ul style="list-style-type: none"> ONNX Uber Neuropod Microsoft Semantic Kernel 	<ul style="list-style-type: none"> Machine Learning Exchange Acumos IBM 	<ul style="list-style-type: none"> Flyte kedro argo Azaban BENTONML Cadence Couler CYCLONE DataBolt kestra Spotify luigi mleap Orchest PREFECT TRAINS 	<ul style="list-style-type: none"> Airflow nifi DAWN Bench MLPerf 	<ul style="list-style-type: none"> FlagAI Qualcomm AIMET FLAML Microsoft aws MMS amazon Neo-AI NETR ONNX Runtime PipelineAI studio.ml Google aws TorchServe turi 									

Distributed Computing		Interface		Security & Privacy		Natural Language Processing		Models		Tools		Notebook Environment		Explainability		Adversarial		Bias & Fairness	
<ul style="list-style-type: none"> EDL MESOS GNS3 NETFLIX genie OPENSIFT Singularity 	<ul style="list-style-type: none"> SOAJS sparklyr ASAPUS TORE LOVY 	<ul style="list-style-type: none"> Google IBM HElib Microsoft SEAL Google TFPrivacy 	<ul style="list-style-type: none"> DELTA RosaeNLG Google ALBERT AllenNLP fastText flair Luon haystack Kashgari FACEBOOK LASER fastNLP intel NLP Architect NLP ParAI FACEBOOK Pytest RASA spaCy Transformers FACEBOOK XLM YouTokenToMe 	<ul style="list-style-type: none"> LLM RWKV Monocle LangChain trulens 	<ul style="list-style-type: none"> Elyra colab IP[y]: IPython jupyter IBM PolyJote BeakerX ENVD Streamlit 	<ul style="list-style-type: none"> AI Explainability 360 ELIS Google Lucid Bolt ALIBI Captum Microsoft UNIVERSITY OF WASHINGTON Line SHAP SKATER AdvBox Advover torch Intersectional Fairness Aequitas Audit AI Fairlearn 	<ul style="list-style-type: none"> Adversarial Robustness Toolbox Intersectional Fairness 	<ul style="list-style-type: none"> AI Fairness 360 TRUSTSHARK Standard University Fairlearn 											