

Machine Learning

Framework	Platform	Library	Framework	Platform	Library	Tool	Reinforcement Learning	Programming
<ul style="list-style-type: none"> Accord.NET Microsoft LightGBM MAHOUT ML.NET RAY ZenML 	<ul style="list-style-type: none"> Angel ForestFlow Alibaba Alink Apache SystemML Ax cortex H2O Kubeflow MEAPFLOW mlflow PredictionIO SELDON YOOPAI MARKET 	<ul style="list-style-type: none"> 1ML AutoGluon CatBoost Flashlight MediaPipe mipack Levens OpenCV openimz CARET Learn 將軍 Shogun Sonnet Salesforce TransmogriAI dmk XGBoost xLearn 	<ul style="list-style-type: none"> SINGA Chainer Microsoft CNTK ay/net Alibaba euler MindSpore mxnet ncnn 飞桨 PaddlePaddle Pythia PYTORCH TensorFlow 	<ul style="list-style-type: none"> Tuiv DeepDetect Determined AI jino Onepanel Polaxon Alibaba.com AI Deep Learning 	<ul style="list-style-type: none"> BigDL Catalyst DL4J fast.ai Keras PyTorch Ignite PyTorch Lightning PyTorchVideo 	<ul style="list-style-type: none"> BeyondML Sandbox BoTorch Intel Distiller ploidML PyTorch Hub PyTorch Proxies tvm 	<ul style="list-style-type: none"> Chainer RL CleanRL Coach DeepMind Lab Dopamine Horizon OpenAI Google PlaNet Google SEED RL Stable Baselines 	<ul style="list-style-type: none"> Pyro Kompute DASK Infer.NET Julia MARS Numba NumPy NYOKA primegrate PyMC3 python R SciPy SHIP 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"> DATAPRACTICES.ORG OpenDS4All 	<ul style="list-style-type: none"> OpenBytes OpenLineage Open Dataology 	<ul style="list-style-type: none"> CouchDB MySQL KV 	<ul style="list-style-type: none"> Milvus JanusGraph docarray ALLUXIO ICEBERG ORC ARESDB ARROW AVRO CEPH DELTA LAKE DRUID HUDI HugeGraph INFLUXDB PANDAS Parquet PILOSA VEARCH vespa Vineyard 	<ul style="list-style-type: none"> datascience dashboard DVC Oulit 	<ul style="list-style-type: none"> Amundsen datashim MARQUEZ HIVE Data Hub snortel WHYLABS whylogs 	<ul style="list-style-type: none"> FEAST feathr Featuretools OpenML3 tsfresh 	<ul style="list-style-type: none"> NNStreamer RocketMQ beam brooklin Flink fluentd kafka logstash Pravega PREFECT PULSAR samza Uber uReplicator 	<ul style="list-style-type: none"> APACHE DRILL HAWO SQLFlow trino 	<ul style="list-style-type: none"> bakeh IBM Carbon Design System plotly Dash Uber deck.gl Ecco Google Facets Grafana Metabase Prometheus RCloud re dash NYU scion Superset Google TensorBoard 	<ul style="list-style-type: none"> Artigraph Analytics Zoo DAGSTER PIFlow TEKTON TPOT 	<ul style="list-style-type: none"> intel CVAT Doccano Labelbox LabelImg HITACHI Inspire the Next Microsoft VOT 	<ul style="list-style-type: none"> EGERIA IBM OPEN SOURCE LICENSE AGREEMENT

Model

Inference	Federated Learning	Training	Parameter	Format & Interface	Marketplace	Workflow	Benchmarking	Tool	Explainability	Adversarial	Bias & Fairness
<ul style="list-style-type: none"> ADLIK KServe CloudfML MNN NVIDIA TensorRT NVIDIA TensorRT Inference Server uTensor 	<ul style="list-style-type: none"> FATE SUBSTRA Intel OpenFL PySyft TensorFlow Federated 	<ul style="list-style-type: none"> KOROVOD LEWIG Microsoft Federated Learning Library Petastorm TorchRec 	<ul style="list-style-type: none"> HYPERSCRIPT Katib talos Uber NeuroPod 	<ul style="list-style-type: none"> ONNX 	<ul style="list-style-type: none"> Machine Learning exchange Acumos IBM 	<ul style="list-style-type: none"> Flyte Kedro Airflow nifi argo Azkaban BENTONML Cadence Couler CYCLONE DataBolt dflow kestra Spotify luigi mleap Orchest PREFECT TRAINS solomo 	<ul style="list-style-type: none"> DAWN Bench MLPerf 	<ul style="list-style-type: none"> FlagAI 迅雷 FLAML Microsoft MMLon MMS amazon Neo-AI NETRON ONNX RUNTIME PipelineAI studio.ml Google TensorFlow Model Analysis aws TorchServe turi 	<ul style="list-style-type: none"> AI Explainability 360 ALIBI ELIS Microsoft InterpretML UNIVERSITY OF WASHINGTON Lime Google Lucid SHAP SKATER TreeInterpreter 	<ul style="list-style-type: none"> Adversarial Robustness Toolbox AdvBox adver torch cleverhans UNIVERSITY OF TORONTO TORQUE FOOTBOX 	<ul style="list-style-type: none"> AI Fairness 360 Aequitas Audit AI Scalped University DeepFP Fairlearn

Distributed Computing

Computing & Management	Interface	Security & Privacy	Natural Language Processing	Notebook Environment
<ul style="list-style-type: none"> EDL Elastic Deep Learning SOAJS Apache Bahir MESOS Apache Ranger SPARK STORM GNSS NETFLIX genie GraphScope kubernetes Intel Nauta OPENSIFT Singularity 	<ul style="list-style-type: none"> sparklyr APACHE TOREE LOVY 	<ul style="list-style-type: none"> Google Differential Privacy HElib Microsoft SEAL Google TensorFlow Privacy TF Encrypted 	<ul style="list-style-type: none"> DELTA RosaeNLG Google ALBERT AllenNLP Google Bert CoreNLP mozilla DeepSpeech fastText flair Intel NLP Architect NLP ParIAI FACEBOOK PyText RASA spaCy Transformers FACEBOOK XLM YouTokenToMe 	<ul style="list-style-type: none"> Elyra colab IP[y]: IPython jupyter IBM Polynote Stencila Streamlit



The LF AI & Data landscape explores open source projects in Artificial Intelligence and Data and their respective domains.

lfaidata.foundation

