

	Framework	Platform	Library	Framework	Platform	Library	Tool	Programming	Reinforcement Learning
Machine Learning	Accord.NET, Microsoft Azure ML	Angel, ForestFlow	1ML, DeepCausality, Recommenders	DeepRec, ShaderNN	TONY	BigML, Catalyst, DL4J, fast.ai	BeyondML	Pyro, Kompute, DASK, Infer.NET	CleanRL, Coach
	Hugging Face, Microsoft LightGBM		SapientML, AutoGluon, CatBoost, Flashlight, MediaPipe	SINGA, Chainer, CNTK, dy/nets		DeepDetect, Determined AI, Keras, X-Train		julia, MARS, Numba, NumPy, NYOKA	DeepMind Lab, Dopamine, Horizon
	MAHOUT, ML.NET	Alibaba Ailink, Apache SystemML, AX, cortex	mipack, Learn2Learn, OpenCV, OpenDAL	Alibaba eulder, MindSpore, mxnet, ncnn	jina, Onepanel	DeepDetect, Determined AI, Keras, X-Train	BoTorch, Intel Distiller	primegranate, PyMC3, python, R, SciPy	OpenAI, Google PlanNet, Google SEED RL
	Open Platform Enterprise, RAY	H2O, Kubeflow, METAFLOW, mlflow	CARET, LeXun, 將軍 Shogun, Sonnet, salesforce TransmogitAI, dmic XGBoost	Alibaba eulder, MindSpore, mxnet, ncnn		Alibaba eulder, MindSpore, mxnet, ncnn	plaidML, PyTorch Ignite, PyTorch Lightning	SKIP, Stan	State Street
	ZenML	PredictionIO, SELDOVA, VONPAL WABBIT	xLearn	Alibaba eulder, MindSpore, mxnet, ncnn			PyTorch, tvml		

	Education	Lineage	Relational DB	Store & Format	Versioning	Operations	Feature Engineering	Stream Processing	SQL Engine	Visualization	Pipeline Management	Labeling & Annotation	Governance
Data	DATA PRACTICES.ORG	OpenLineage, OpenBytes	CouchDB, MySQL, KV	Milvus, docarray, JanusGraph, LakeSoul	dotciencia, DVC, FaaSFlow, oult	MARQUEZ, Amundsen, datashim, Mathesar, snoriel, WHYLABS whylogs	FEAST, feathr	NNStreamer, RocketMQ, beam, brooklin, Flink, fluentd, kafka, logstash, Pravega, PULSAR, samza, Uber	ARABIC DRILL, HAWQ, presto, SQLFlow, trino	bokeh, IBM, plotly, Uber, deck.gl, Ecco, Google Facets, Grafana, Metabase, Prometheus, RCloud, re dash	Artigraph, intel, Analytics Zoo, DAGSTER, PIFlow	Xtremel, intel CVAT, Doccano, Labelbox, Labeling, HITACHI, Microsoft WIT	EGERIA, Bitol
	OpenDS4All	Open Dataology		ALLUXIO, ICEBERG, ORC, ARESDB, ARROW, Hudi, HUGEGRAPH, influxdb, pandas, Parquet, pilosa, StarRocks, Valid, VEARCH, vespa, Vineyard									

	Inference	Federated Learning	Training	Parameter	Format & Interface	Marketplace	Workflow	Benchmarking	Tool	Data
Model	ADLIX, KServe	FATE, Substra	KORONOS, LEWIG	HYPEROPT, Katib	ONNX, Uber Neuropod, Microsoft Semantic Kernel	Machine Learning Exchange, Acumos	Flyte, kedro, C4-T-M-E-D	DAWN Bench, MLPerf	FlagAI, Qualcomm AIMET, FACEBOOK dlm, FLAML, Microsoft MLon, AWS MMS	RWKV
	CausalML, MNN, NVIDIA TensorRT, NVIDIA TensorRT, uTensor, vLLM	OPENFL, PySyft, TensorFlow Federated	deepspeed, Microsoft, Petastorm, TorchRec, talos				argo, Azkaban, BENTOML, Cadence, Couler, CYCLONE, DataBot, kestra, Spotify luigi, mLeap, Orchest, PREFECT, TRAINS		studio.ml, amazon Neo-AI, NETRIN, ONNX Runtime, PipelineAI, Google, aws TorchServe, turi	

	Computing & Management	Interface	Security & Privacy	Natural Language Processing	Notebook Environment	Explainability	Adversarial	Bias & Fairness
Distributed Computing	EDL, SOAJS, Spark, Storm, GNS3, NETFLIX genie, GraphScope, kubernetes, Intel, OPENSHIFT, Singularity	OPEN VOICE INTEROPERABILITY, sparklyr, TORRE, LUVY	Google Differential Privacy, IBM HElib, Microsoft SEAL, Google TensorFlow Privacy, TFEncrypted	DELTA, ROSAE NLG, Google ALBERT, AllenNLP, Google Bert, ConNLP, mozilla, fastText, flair, ELUON, hoystock, Kashgari, FACEBOOK LASER, LUCANA, CISCO MindMall, intel NLP Architect, NLP, ParAI, FACEBOOK Pynt, RASA, spaCy, Transformers, FACEBOOK XLM, YouTokenToMe	Elyra, colab, BeakerX, ENVD, IPyT: IPython, jupyter, IBM, PolyNote, Stencil, Streamlit	AI Explainability 360, ELIS, Microsoft, UNIVERSITY OF WASHINGTON Lime, Google Lucid, SHAP, SKATER, Bolt, trulens	Adversarial Robustness Toolbox, AdvBox, odover torch, cluvarhans, Footbox	AI Fairness 360, Intersectional Fairness, Aequitas, Audit AI, Fairlearn