

Tool	Tracking (runs)	Artifacts	Provenance (code/config/data link)	Orchestration (scheduling)	Retries	Parallelism / queues	Stage skip / caching	HPO optimization	Training framework	Versioning (code/data)	Typical deployment	License model
MLflow	X	X	X								self-host / local	FOSS
Weights and Biases	X	X	(x)					(x)			SaaS / enterprise	Commercial (free tier)
TensorBoard	(x)	(x)									local	FOSS
Prefect	(x)			X	X	X	X				self-host / cloud	Open core
Dagster	(x)		(x)	X	(x)	X	X				self-host / cloud	Open core
Airflow				X	(x)	X	(x)				self-host / managed	FOSS
Argo Workflows				X	(x)	X	(x)				Kubernetes	FOSS
Kubeflow Pipelines			(x)	X	(x)	X	(x)	(x)			Kubernetes	FOSS
Optuna						(x)		X			local / service- backed	FOSS
Ray Tune				(x)	(x)	X	(x)	X			Ray cluster	FOSS
DVC		(x)	X	(x)			X			X (data)	local / remote storage	FOSS
Git			X (code)							X (code)	everywhere	FOSS
lakeFS			X (data)				(x)			X (data)	service / storage layer	Open core
PyTorch Lightning		(x)							X		library	FOSS
Hugging Face Trainer		(x)							X		library	FOSS