ML Workflow – Incorporating LF AI Hosted Projects

Data Governance

Data cleansing → Data ingestion → Data analysis → Data transformation → Data validation → Data splitting

Ethics Management

Building a model → Training optimization → Model validation → Training at scale

Security Management

Deploying → Serving → Monitoring & Logging → Finetune & improvements

Dataflow and Workflow Orchestration

Data prep

Model creation

Deploying

Serving

Monitoring & Logging

Finetune & improvements

Model

Data ingestion

Data analysis

Data transformation

Data validation

Data splitting

Data cleansing

Model validation

Training at scale

Training optimization

Model

Cloud

Edge

Model
ML Workflow – Incorporating Open Source ML/DL Projects

Data
- Data cleansing
- Data ingestion
- Data analysis

Data Governance
- Data transformation
- Data validation
- Data splitting

Data prep
- Data ingestion
- Data analysis

Model creation
- Training optimization
- Model validation
- Training at scale
- Model

Rollout
- Model serving
- Monitoring & Logging
- Finetune & improvements

Pachyderm
- Dataflow and Workflow Orchestration

Marketplace (AI Hub)
- AIF 360
- Adversarial-robustness-toolbox

MLFlow
- Model creation
- Serving
- Monitoring & Logging

The Linux Foundation
- KubeFlow
- Seldon

TF
- TensorFlow
- Keras
- PyTorch
- Chainer
- PaddlePaddle
- Jupyter

Adversarial-robustness-toolbox
- AIF 360

Angel
- AIF 360

MAX
- Edge
- Cloud

THE LINUX FOUNDATION
- DLF AI