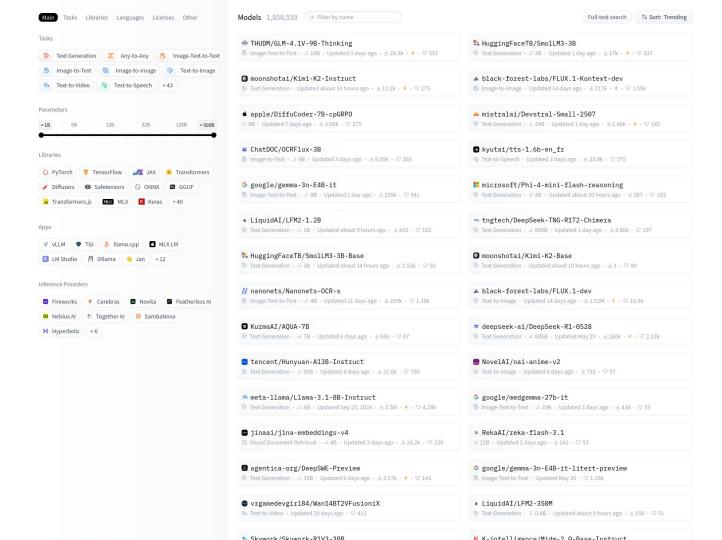


Treat Your Al Models Like You Treat Containers

Ram Iyengar



Models





Containers







Unified packaging



Portable



Worked for all languages



Fragmented

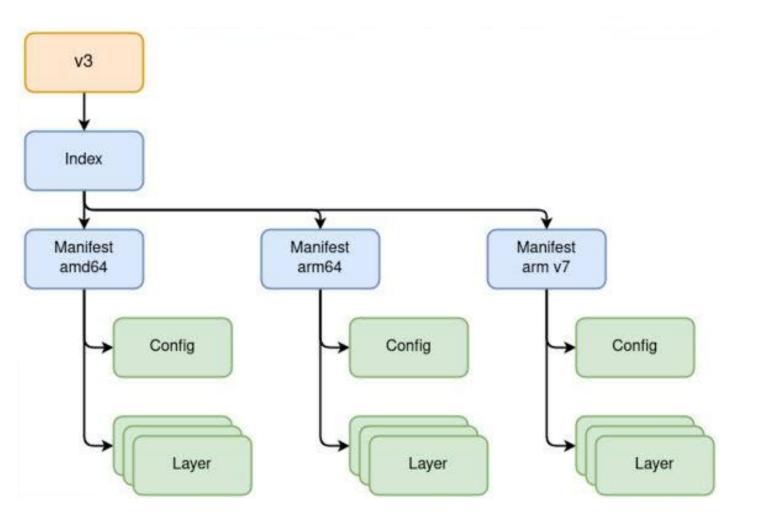


Opinionated





OCI Artifacts





Content addressable



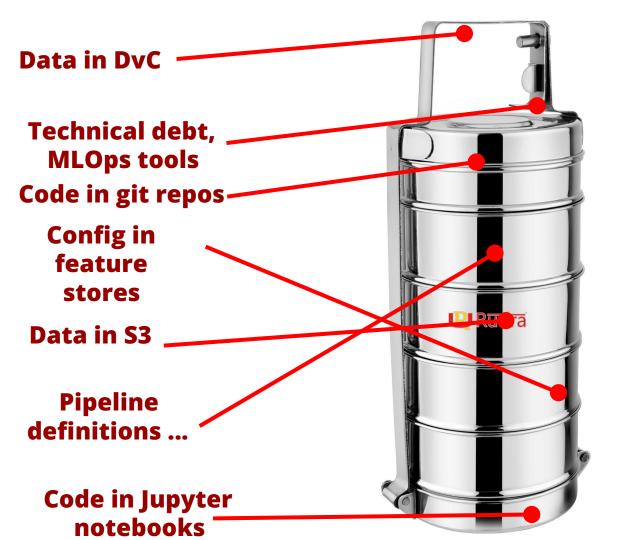
Group related items



AI/ML







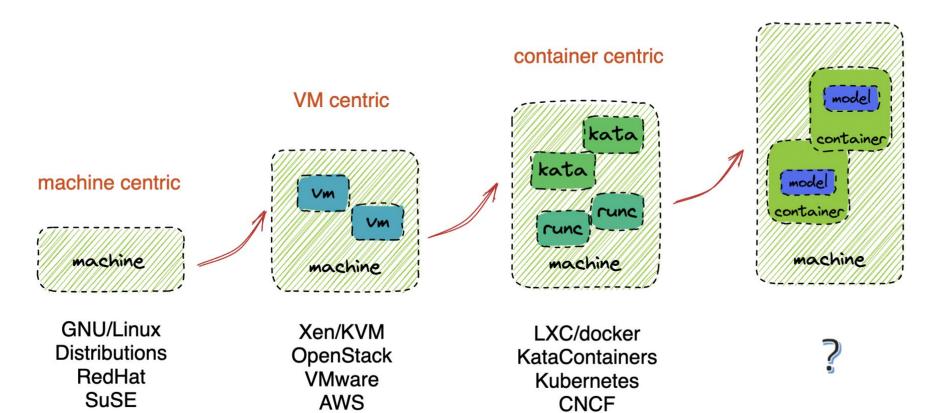


Fragmented



Opinionated

model centric



Docker



Reproducible

Reuse existing pipelines

Filesystems are layered

Not Al-native

Not content addressable

Perf, security, and efficiency



MLFlow



Tracking

Projects

Models, Model Registry

Lacked basic scaling

Ops complexity



Kserve



CRD based automation

Multiple-step inference

Serverless AI/MLOps

No advance customization

Batch inference



KubeRay



Kubernetes Operators/CRD

RayTrain, RayServe, RayTune

Serverless AI/MLOps

Complexity

Re-architect everything

Debugging 🤯



ONNX



First known open standard

Converted models to .onnx

Boosts speed, compresses

Tuning for ONNX support

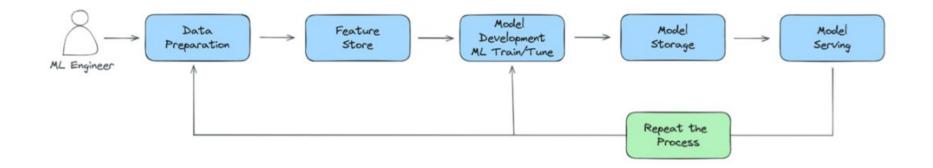
New architecture support





KitOps

Open ModelPack Spec



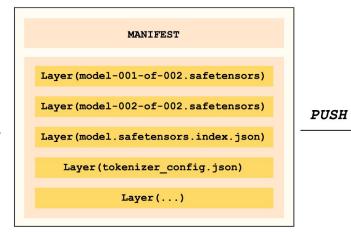
ML Lifecycle

Model Repository

/model-001-of-002.safetensors
/model-002-of-002.safetensors
/model.safetensors.index.json
/tokenizer.json
/tokenizer_config.json
/vocab.json
/.gitattributes
/config.json
/generation_config.json
/LICENSE
/README.md
/...

BUILD

Model Artifact

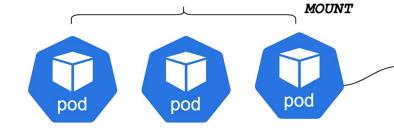






PULL

Container Runtime



model-001-of-002.safetensors model-002-of-002.safetensors model.safetensors.index.json tokenizer_config.json config.json



ModelKit





@ramiyengar