



Building a Reproducible Model Workflow Cont.

Final Pipeline, Release and
Deploy

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DCA

01

Final Pipeline

Download, Preprocessing, Data Checks,
Data Segregation, Model Training, Evaluate

02

Release Basics

One repository vs multiples ones

Deployment: The operation of taking an inference artifact and putting it into production, so it can serve results to stakeholders and customers.

03

Release for Reproducibility

Semantic version, remote execution

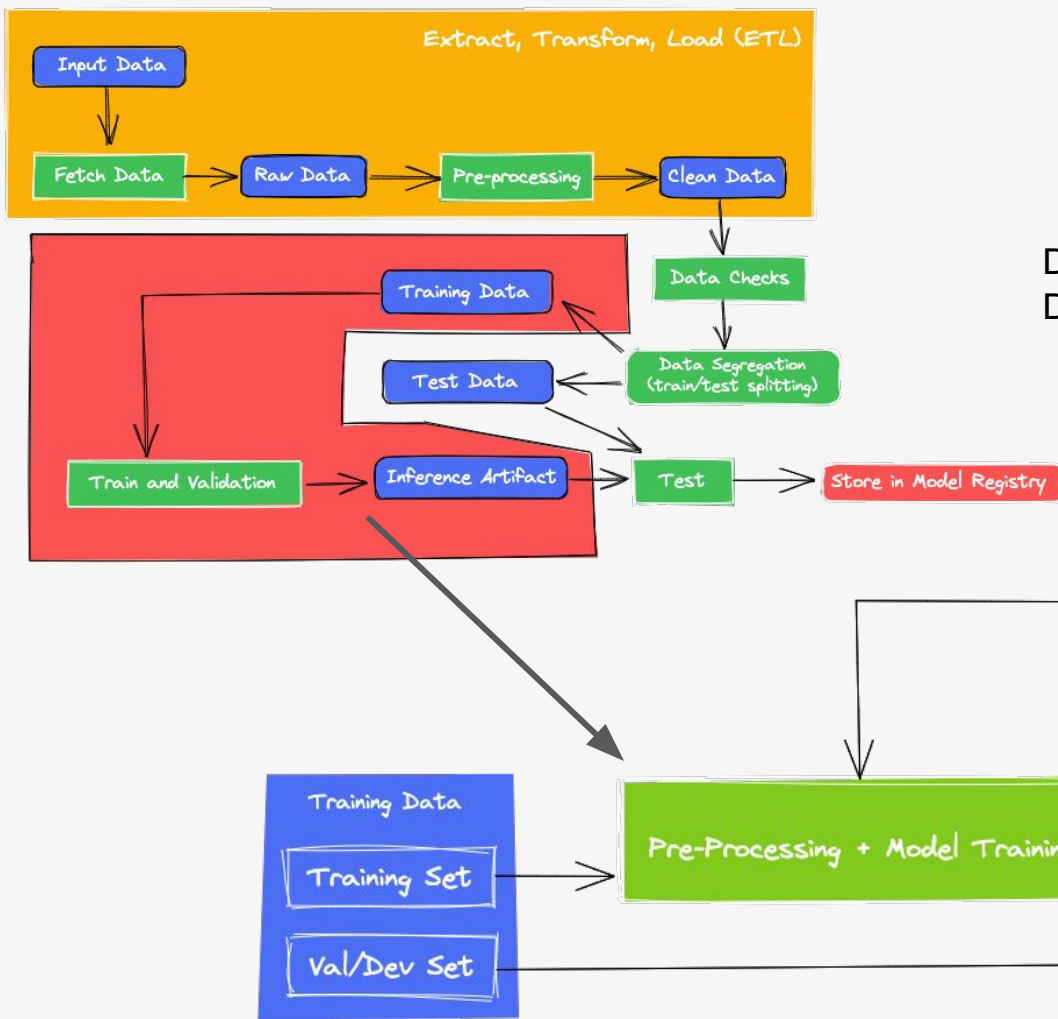
04

Deploy with MLflow

Online vs Offline

Final Pipeline

Download, Preprocessing, Data Check,
Data Segregation, Model Training, Evaluate



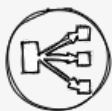
ML Pipeline in MLFlow

A project that calls other projects (the components)



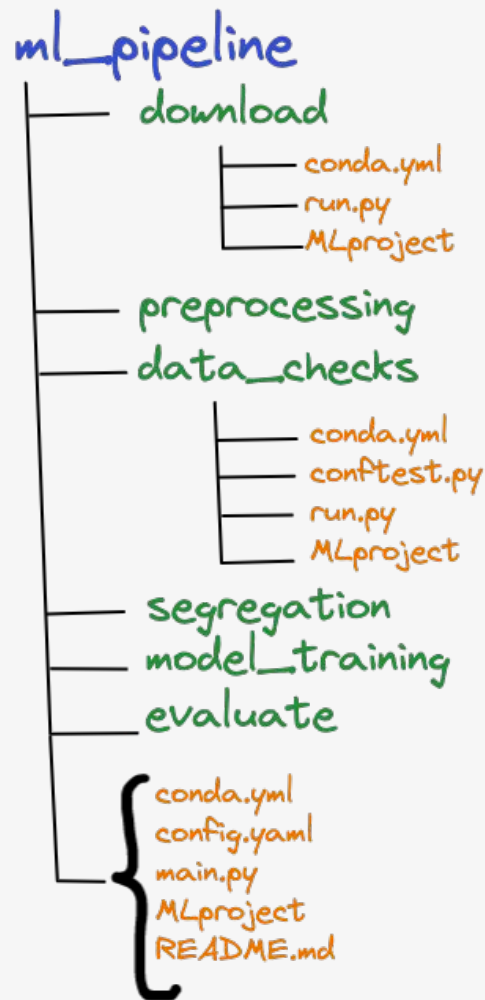
One repository

For simplicity



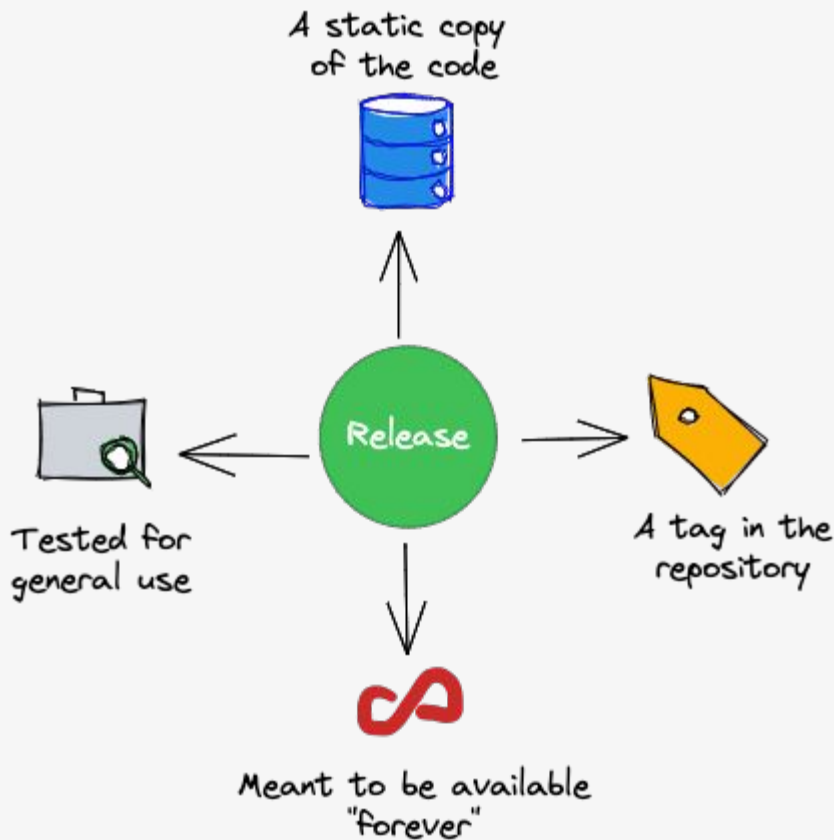
Another option

When your operations scale up, you will want one or more repos for the components and one or more repos for each project



What is a release?

A release is a static copy of the code that reflects the state of the code at a particular point in time. It has a version attached to it, and a tag. The tag can be used to restore the repository (or a local copy of the code in the repository) to the state it was when the release was cut.



Semantic Versioning

Minor

Changes are
backward compatible

Major

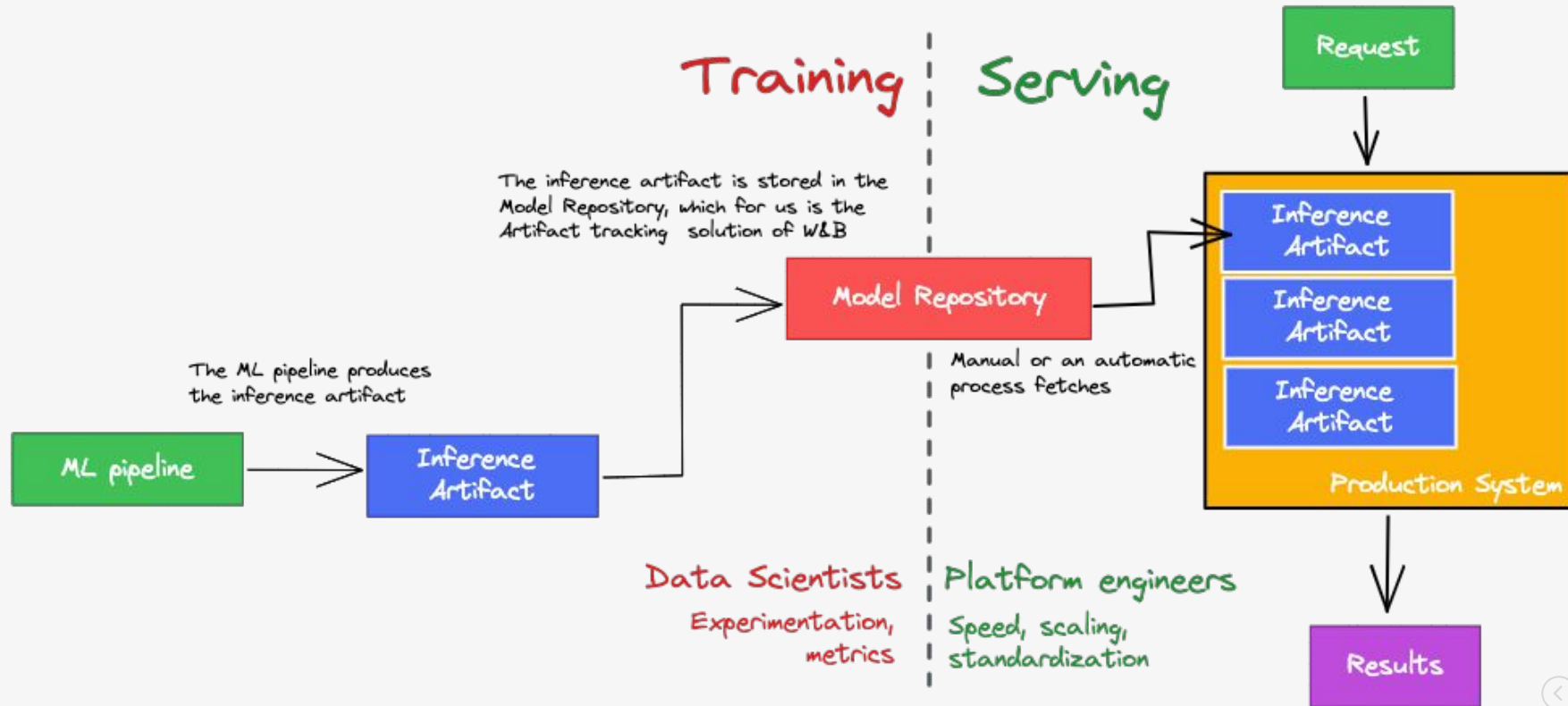
Changes are not
backward compatible

1.4.13

Patch

Bug fixes or small
changes, backward
compatible

Deployment



Using a model in production: Online vs Offline Inference

