

TC5044

Machine Learning Operations

2.2 Tracking

POSTGRAD

MNA

Introduction

Code

Data Model

Environment

Infrastructure

A **software system** is guaranteed to produce the **same results** If these properties are the same

But not an **ML System**

**Statistical
properties of the
data**

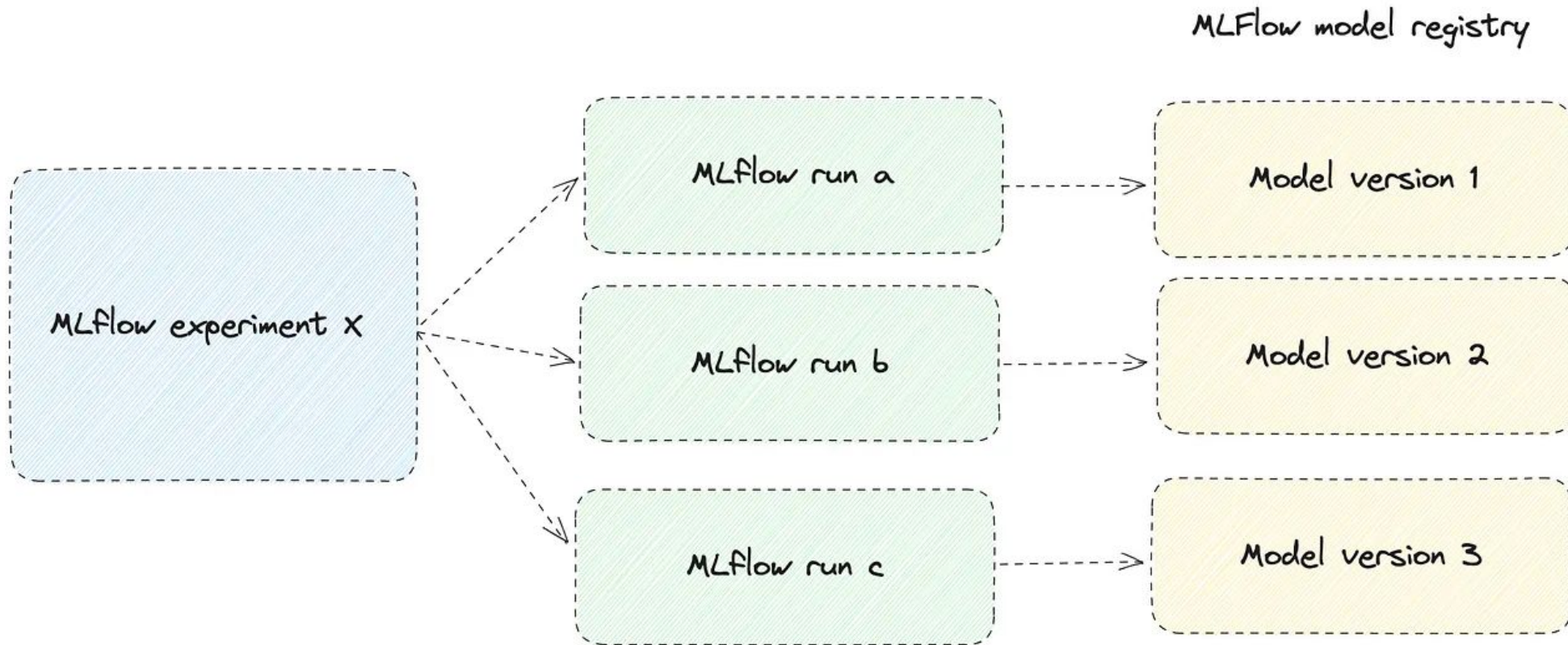
If the **properties of the data** have changed it may affect model performance

MLFlow Components

- **MLflow Tracking:** a centralized repository that logs machine learning model parameters, metrics, artifacts, and a reference to data used for model training.
 - Experiment tracking gives insights into changes in models over time, and helps with model evaluation.
- **Model Registry:** a centralized model store that allows to manage model's lifecycle, add tags, aliases, and new model versions.



Experiments, runs and versions





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