Data Contracts in action powered by Python open source ecosystem

Agenda

- About me
- My challenges before data contracts
- Data contracts primer
- Streaming solution with a data contract
- Batch solution with a data contract
- Talk to me

About me

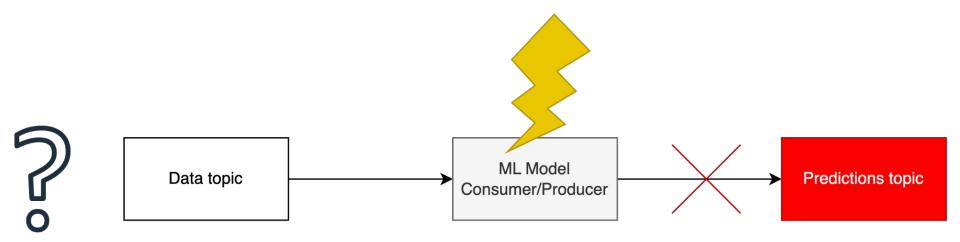
Principal MLOps and Data Engineer at Thoughtworks

Organiser of PyLadies Amsterdam

Microsoft AI MVP since 2021

My challenges before data contracts

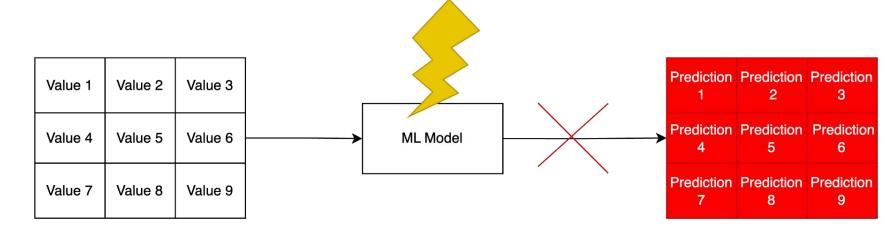
Streaming challenge



My challenges before data contracts

Batch challenge





"A data contract is an agreed interface between the generators of data and its consumers. It sets the expectations around that data, defines how it should be governed, and facilitates the explicit generation of quality data that meets the business requirements."

interface

abstraction

agreement

confidence

expectations

the structure/schema

data quality checks

SLOs (completeness, timeliness, availability)

ownership and responsibilities

governed

PII sensitivity

access

retention

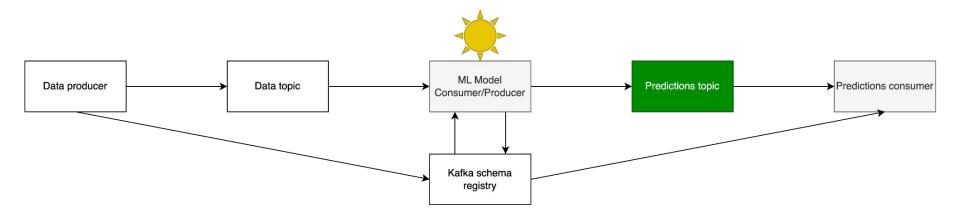
anonymization

lineage

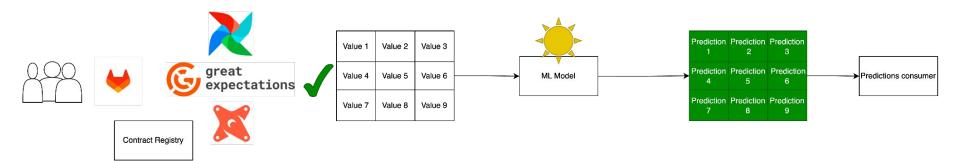
explicit

built for consumption

Streaming solution with a data contract



Batch solution with a data contract



Talk to me



About me



About PyLadies Amsterdam