

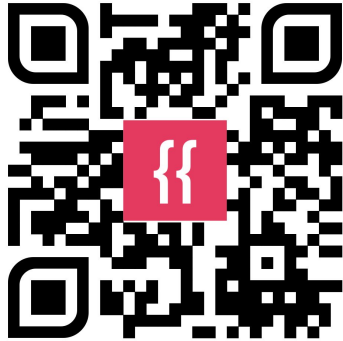
Feature Store Usage Patterns

From a Single Data Scientist to an Enterprise

Simba Khadder, Creator, Featureform

Who am I

**Featureform
Repo**



LinkedIn



Simba Khadder
Co-founder & CEO

Two problems to be solved

Processing Problem



Organization Problem



MLOps is about organizational problems



Two problems to be solved

Processing Problem



Organization Problem



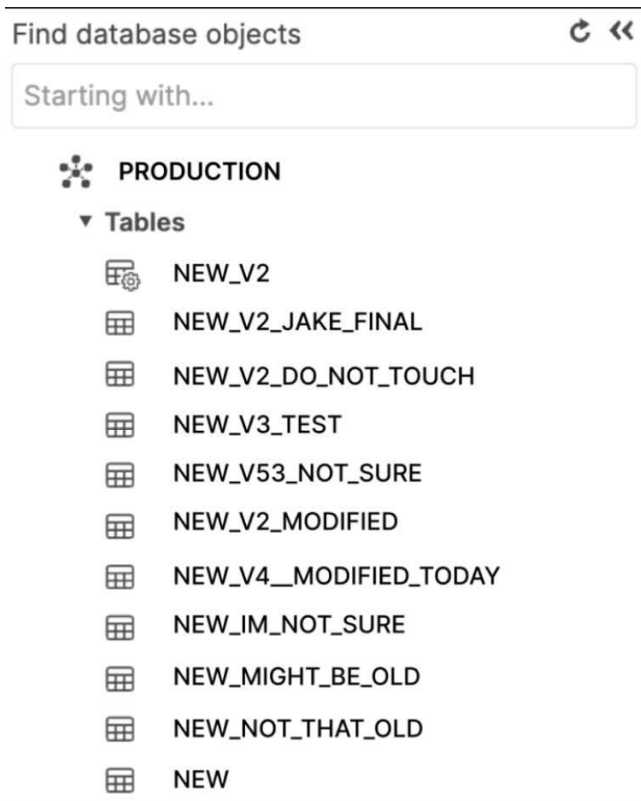
Processing Problem

- I need 10ms latency on this feature.
- I need to process and store 100TB of data
- I need streaming data to process exactly once and be up to date to the last second.

Organization Problem

- Who owns this feature?
- What happens if X leaves the company?
- Is this feature still being used?
- What features are our ad serving model using?
- Am I allowed to use PII in this model?
- How is this feature defined?

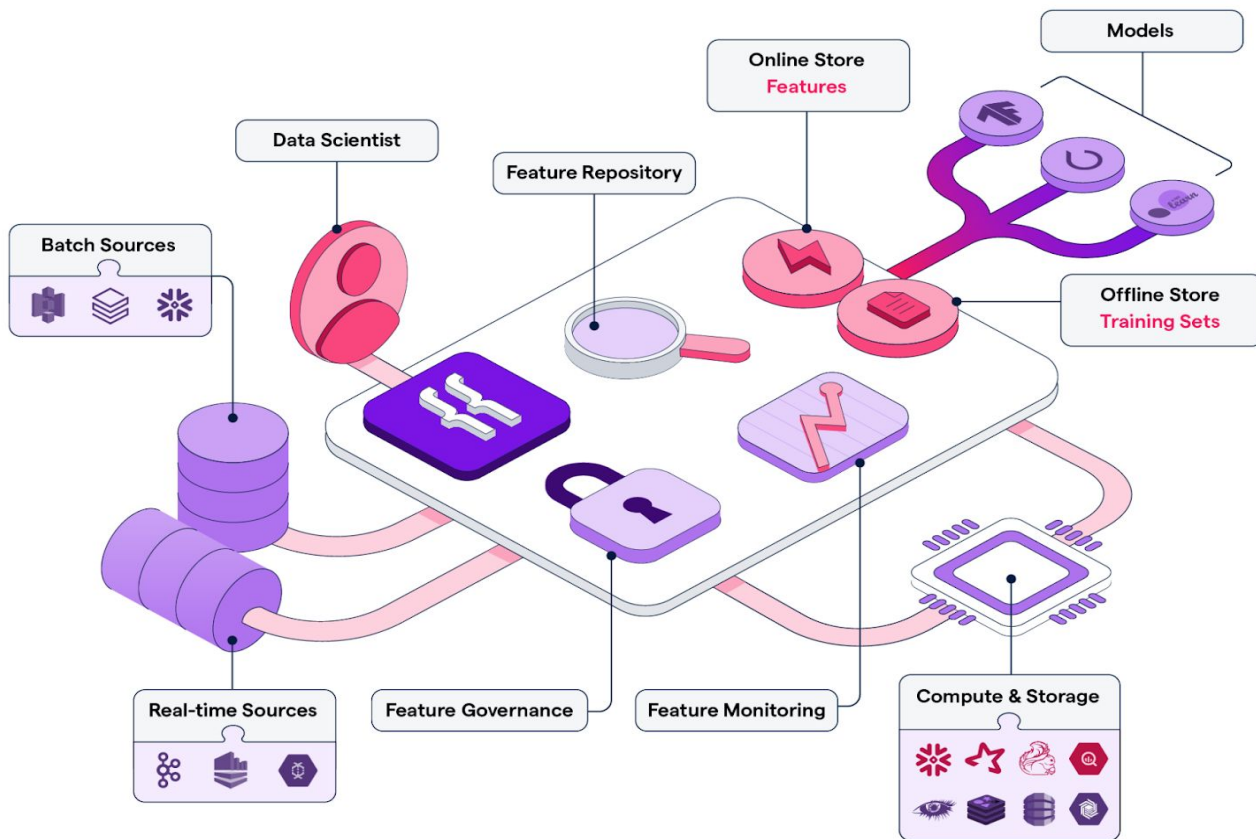
Scaling up with no MLOps



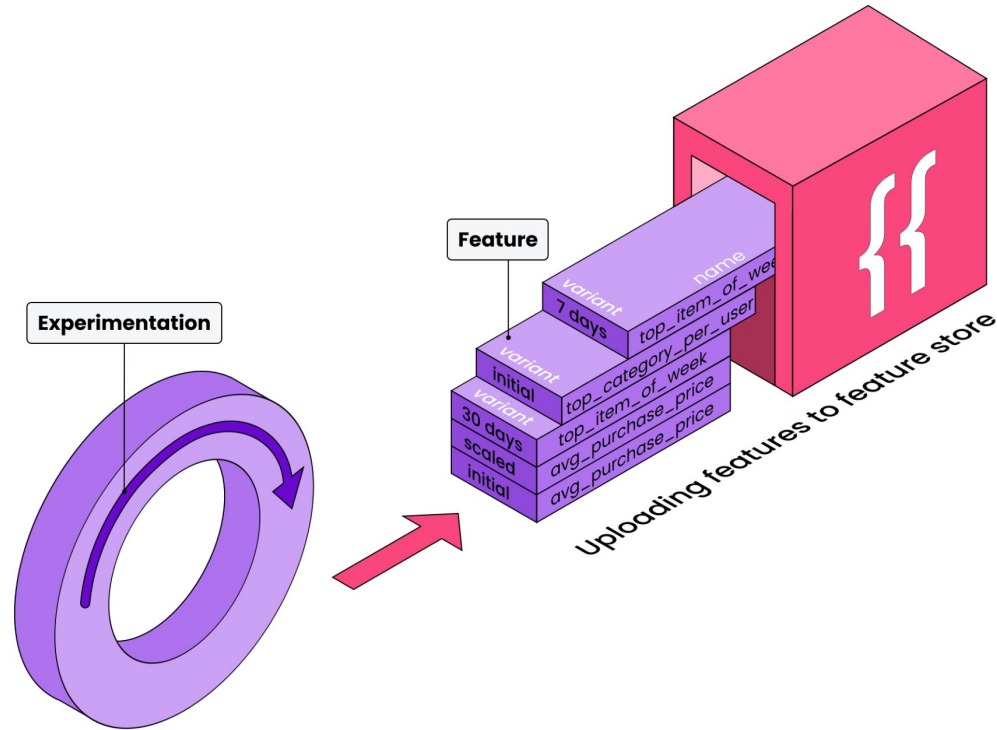
Virtual Feature Store Brief

- Enables data scientists to **define, manage, and serve** their ML model's features
- Sits **atop your existing infrastructure** and orchestrates it to work like a **traditional feature store**

Virtual Feature Store



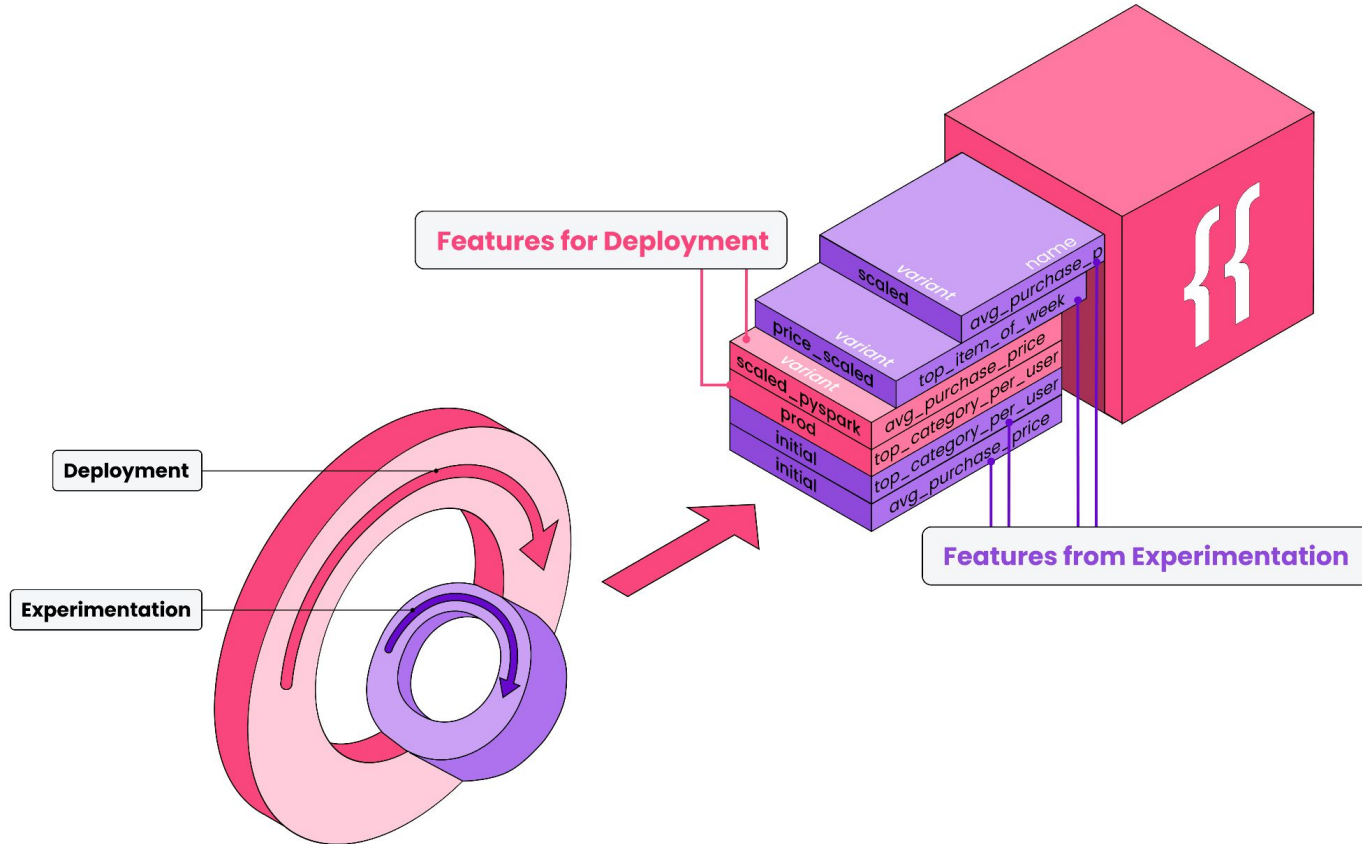
One Data Scientist, Locally



Purpose

- Store and organize transformations, features, and training sets in a purpose built repository
- Keep a History of Changes
- Be able to progress to a larger organization

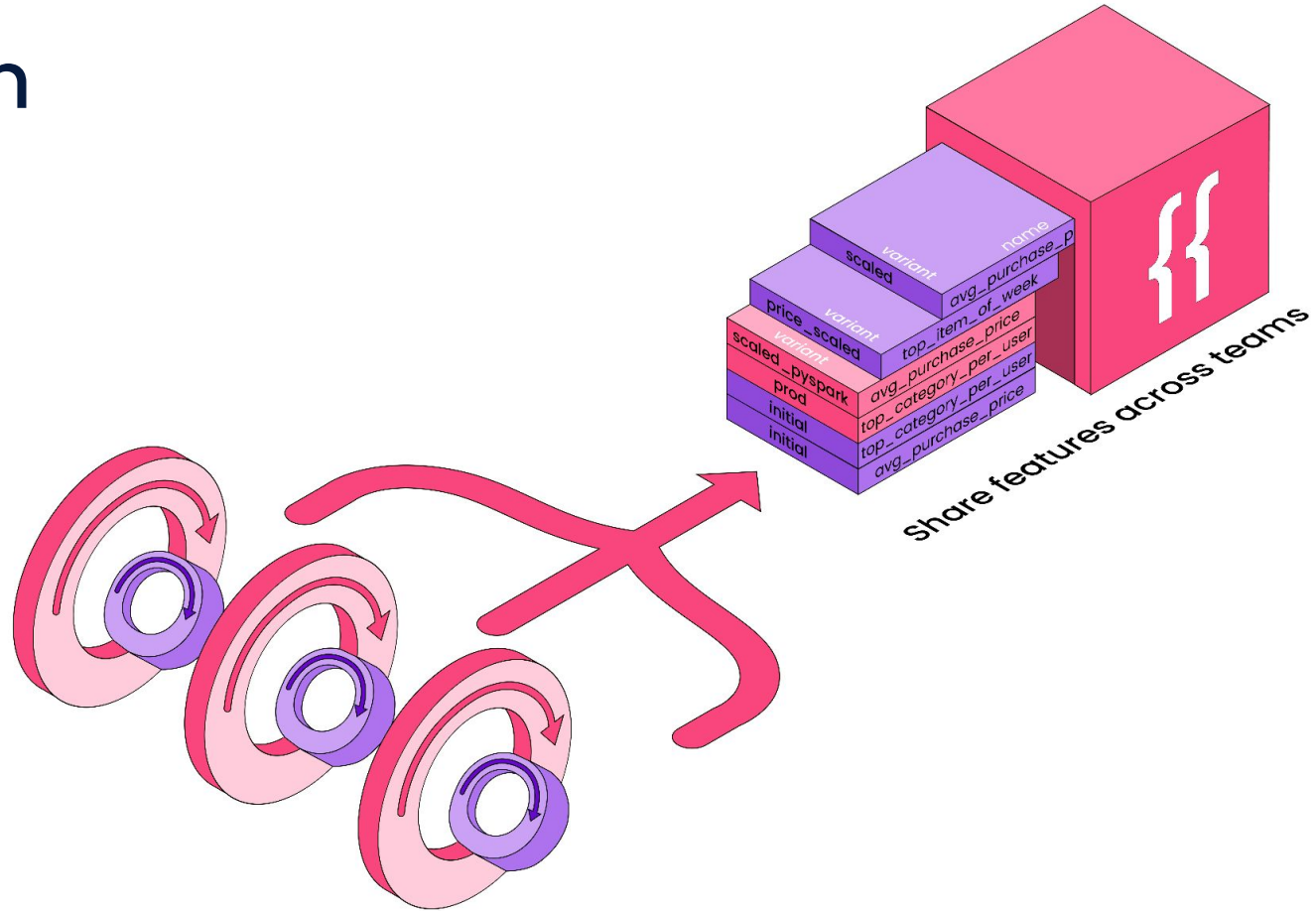
One Data Scientist



Purpose

- Simplify Feature Deployment
- Monitor Production Features
- Unify Experimental and Production Features

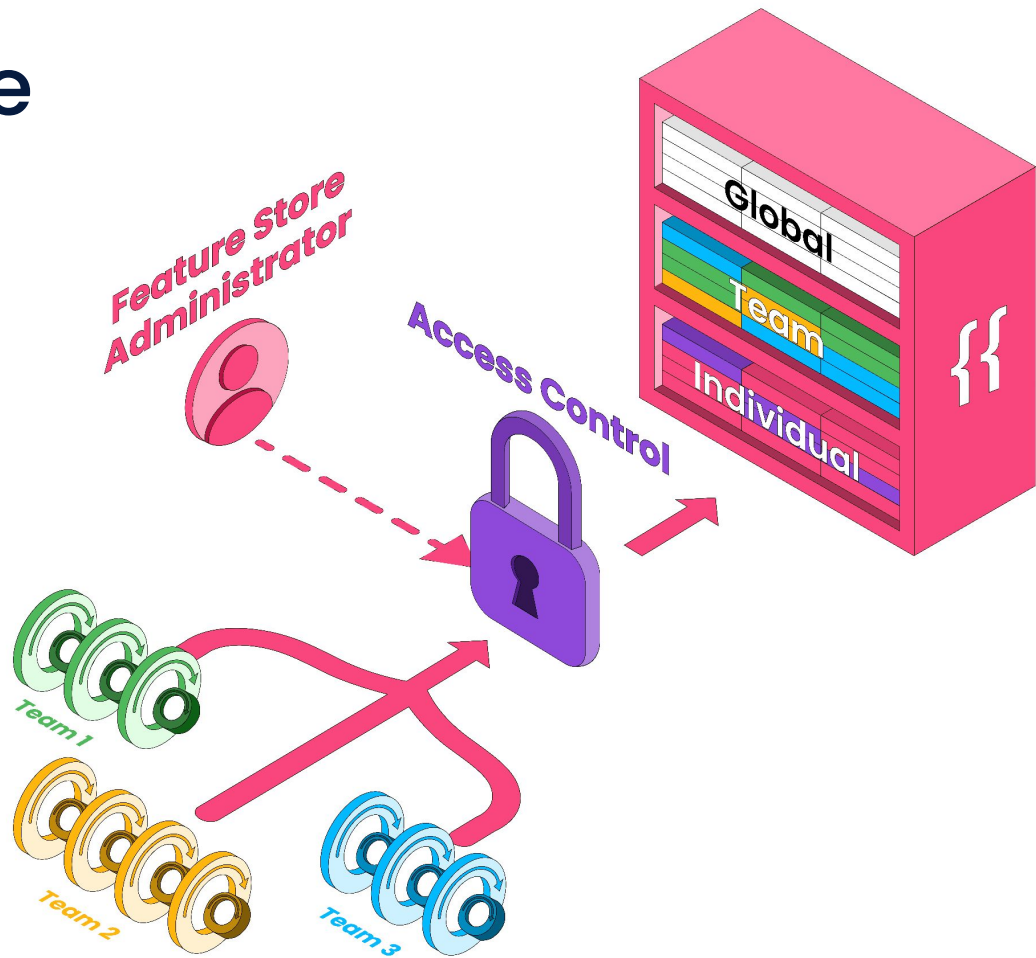
Team



Purpose

- Enhanced Communication & Collaboration
- Discover & Understand Each Other's Work
- Re-use & Share resources with immutable definitions

Enterprise

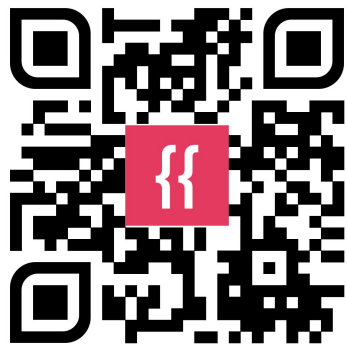


Purpose

- Hierarchical Search & Discovery
- Heterogeneous Infrastructure
- Governance, Access Control, Audit Logs
- Cross-Functional Workflows

Thanks!

**Featureform
Repo**



LinkedIn



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