

# Complete Flow with MinIO

## ## STORES

Inventory Scans

POS Sales

Real-time events

## ## PIPELINE

Kafka

Process stream

Spark

Aggregated data

Raw data storage

ClickHouse

MinIO

## ## INTELLIGENCE

Airflow

Train models

MLlib

Write predictions

Save models

### MinIO = Data Lake

- Raw data (cheap)
- ML models (versioned)
- Features (reusable)

Dashboards

Query data

Load models

## ## RESULTS

Power BI

FastAPI