Source Systems
(MySQL - CSV)

Ingestion
(Python, MySQL Connector
MongoDB Client)

Data Flow

Analytical Warehouse
(DuckDB)
(staging / analytics schemas)

Source Systems
(MongoDB - JSON reviews)

Transformation & Modeling
(dbt - staging → marts)

Optional: Docker
(services: MySQL, Airflow, DuckDB runtime,
Dash app)

Orchestration
(Airflow DAGs)
Schedule / Trigger / Monitoring

Visualization
(Dash connected to DuckDB)
KPI cards / Filters / Drilldowns

Airflow schedules: ETL -> dbt -> Dashboard refresh