**Low-Level Design (LLD)**

**Detailed Component Specifications**

**1.** **Feature Engineering**

* **Feature Extraction Scripts**: Detailed code for extracting features from raw data.
* **Feature Store**: Define storage for reusable features, versioning, and access patterns.

**2.** **Machine Learning Models**

* **Model Training Code**: Detailed code for training models, including data preprocessing, algorithm parameters, and training loops.
* **Evaluation Metrics**: Scripts for calculating performance metrics and generating evaluation reports.

**3.** **Model Serving**

* **API Specification**: Define endpoints for model inference, request/response formats, and latency requirements.
* **Containerization**: Dockerfiles for packaging models, deployment scripts for Kubernetes or other orchestration tools.