

High-Level Design (HLD) Document: Overview of system and architecture

1. **Objective:** Predict cryptocurrency liquidity for market stability.

2. **Architecture Diagram:**

Dataset → Data Preprocessing → Feature Engineering → Model Training
→ Evaluation → Deployment (Flask App)

3. **Major Components:**

- Data source (CSV or API)
- Preprocessing module
- Model module
- Flask frontend

4. **Tech Stack:**

- Python, Pandas, Scikit-Learn, Flask
- Deployed on Render

5. **Performance Metrics:** RMSE, MAE, R^2 .