# High-Level Design (HLD) - Cryptocurrency Liquidity Predictor

## Purpose

High level overview to predict liquidity and detect crises early.

## Components

Data Ingestion: Raw CSV files from CoinGecko.

Preprocessing: Cleaning, missing value handling, date parsing.

Feature Engineering: Rolling averages, volatility, liquidity ratio.

Model Training: Baseline models (Linear Regression, RandomForest).

Deployment: Streamlit or Flask for demo; joblib-saved model.

## Architecture Diagram

Block diagram: Raw Data -> Preprocess -> Features -> Train -> Evaluate -> Deploy