

HIGH LEVEL DESIGN

Cryptocurrency Volatility Prediction

System Overview:

The system predicts cryptocurrency market volatility using machine learning.

Components:

1. Data Source:

Historical cryptocurrency OHLC, volume, and market capitalization data.

2. Data Processing:

Data cleaning, normalization, and feature engineering.

3. Machine Learning Model:

Random Forest Regressor is used for volatility prediction.

4. Output:

Predicted volatility values for market analysis.

Architecture Flow:

Input Data → Preprocessing → Feature Engineering → ML Model
→ Volatility Prediction