

FINAL PROJECT REPORT :

Cryptocurrency Volatility Prediction

Objective:

To predict cryptocurrency price volatility using machine learning techniques.

Methodology:

The project involved data preprocessing, exploratory data analysis, feature engineering, and training a Random Forest regression model.

Results:

MAE: 0.0212

RMSE: 0.0735

R^2 Score: 0.4596

Conclusion:

The model successfully captures volatility patterns and can support risk management and trading strategies.

Future Scope:

Advanced time-series models and real-time deployment can further improve prediction accuracy.