4. Final Report

Objective:
To predict how easily a cryptocurrency can be traded (liquidity), helping avoid risk in volatile markets.

Methodology:

- Cleaned two CSV files from CoinGecko (2016–2017)
- Performed feature engineering:
    - Moving Average
    - Volatility
    - Liquidity Ratio
- Used **Linear Regression model** to predict liquidity (represented by 24h_volume)
- Deployed a working web app using **Flask and Render**

Model Performance:

- **RMSE**: Low (good)
- **MAE**: Small errors
- **R^2 Score**: Acceptable (model fits the data)

Interface:
User enters:

- Moving Average
- Volatility
- Liquidity Ratio
  → Gets a predicted liquidity score (volume in 24 hours)

Link of the project:- Click here