

## 4. Final Report

**Goal:** Forecast the ease of trading cryptocurrencies (liquidity) to mitigate risks in volatile markets.

**Approach:**

**1. Data:** Cleaned and processed historical data from CoinGecko (2016-2017).

**2. Feature Engineering:** Created relevant features, including:

- Moving Average
- Volatility
- Liquidity Ratio

**3. Modeling:** Trained a Linear Regression model to predict liquidity (24-hour trading volume).

**4. Deployment:** Built a functional web application using Flask and Render.

**Model Performance:**

- Low RMSE: Indicates good predictive accuracy.
- Small MAE: Suggests minor errors.
- Acceptable  $R^2$  Score: Shows a decent fit to the data.

**User Interface:**

**- Users input:**

- Moving Average
- Volatility
- Liquidity Ratio

**- Output:** Predicted liquidity score (24-hour trading volume).

**Link of project:-** [Click here](#)