

**David Dunston**

## **DA Lab 08**

Project title : **Cryptocurrency Data – Altcoin price fluctuations, market sentiment, and volume trends**

Group member names: David Dunston

Summary of data sources : historical BTC data from sources like: CoinGecko API, [Yahoo Finance](#), CryptoCompare , [Kaggle datasets](#)

Description of methods : **Time Series Forecasting** – ARIMA, LSTMs, or Prophet for trend prediction.

**Machine Learning** – Random Forest

**entiment Analysis Integration** – Using NLP models to extract market sentiment from financial news and social media.

**Real-Time Data Pipeline** – Automated data ingestion and model retraining for up-to-date predictions.

Any results that you've generated so far

Anticipated difficulties or road blocks ? WILL I BE ABLE TO RUN THIS MUCH DATA?

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