**Project Title**

‘Insight and Analysis of Bitcoin as an alternative form of investment’

**Team Members**

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**Project description/outline**

Provide potential investors with data analysis of the performance of Bitcoin as a potential investment alternative. The analysis will include a sensitivity analysis of the value fluctuation and future forecast of Bitcoin value, including sentiment indicators based on the most buying and most selling data and time periods.

**Research questions to answer**

1. How much fluctuations occurred throughout the years?
2. Is there a pattern for the price swings (based on a time of the year) to warn investors?
3. Is there a forecast value based on regression analysis?
4. Based on the dataset is there enough data to make a conclusion that cryptocurrency/bitcoin can be sustainable to use in the future?
5. What are the different factors when it comes to pricing throughout certain years?
6. How does another crypto currency compare in trend similarity and differences over the same time period?
7. Under investor psychology:
   1. Periods of most selling/buying.
   2. Time periods of most selling and/or buying.
   3. At what price most selling and/or buying happened.
   4. Periods of large transactions
   5. What are some of the sentiment indicators?

**Datasets to be used**

1. <https://www.kaggle.com/mathurinache/nft-history-sales>
2. <https://www.kaggle.com/varpit94/ethereum-data?select=ETH-USD.csv>

**Rough breakdown of tasks**

1. **Data Preparation (upload data and clean up data)**
2. **Conduct Data Analysis using pandas**
3. **Prepare visuals based on the analysis (using Matplotlib)**
4. **Prepare Conclusions**
5. **Prepare Presentation Slides**