Brainstorm
& idea prioritization

1

Problem Statement

Estimating Share Prices of Top 5 GPU Companies

Background

The rapid growth of the GPU (Graphics Processing Unit) industry has attracted significant attention from investors and financial analysts. Accurate prediction of the share prices of top GPU companies is crucial for making informed investment decisions. Machine learning can be a powerful tool for modeling and forecasting these share prices, but it presents several challenges.

Problem Description

The problem at hand is to develop a machine learning model that can accurately estimate the share prices of the top 5 GPU companies in the market. This task involves predicting the future share prices based on historical data and relevant features.

2

Brainstorm

Vishwas Mishra	Sai Sumedh	Shreyas Pachpol	Vedant Jadhav
Market Research : Research on the GPU industry and market trends.	**Data Preprocessing:** Collaborate with data engineers to ensure data is standardized,ready for modeling.	**Data Collection:** Gather a data collection pipeline to gather financial data, news sentiment data, .	**Clustering :** Apply clustering techniques to group GPU companies based on their share price behaviors
Risk Assessment : Assess the potential risks associated with investing in GPU companies .	**Model Selection:** Explore different machine learning models and techniques.	**Data Processing:** Implement data preprocessing to handle data inconsistencies, missing values	**Data Fusion:** Explore ways to fuse multiple data sources
Earnings and Revenue Projections : Generate earnings and revenue projections for the GPU companies.	**Earnings and Revenue Projections** : Generate earnings and revenue projections for the GPU companies.	**Scalability:** Plan for scalability to accommodate the growing dataset	**Risk Management:** Identify potential risks and develop contingency plans

3

Group ideas

Models

- Linear Regression Model
- Decision Tree Regressor
- Extra Trees Regressor
- Random Forest Regressor

Data Sources

- Historical stock price data of the concerned companies
- Social Media Data
- Regulatory Filings(SEC,SEBI) of the companies audit reports
- Kaggle(Given by Smartbridge)
- Macroeconomic data

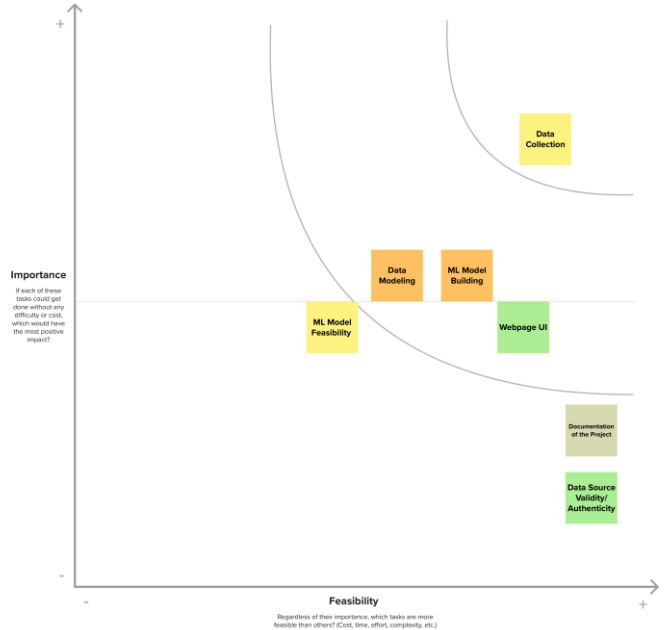
Presentation

- Visualizing data results
- Presenting model visualizations
- Show use of API in webpage deployment
- Cite all data sources

4

Prioritize

Your team should all be on the same page about what's important moving forward. Place your ideas on this grid to determine which ideas are important and which are feasible.



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