Ideation Phase Brainstorm & Idea Prioritization Template

Date	14 November 2023
Team ID	Team-591961
Project Name	Project - Time Series Analysis For Bitcoin Price Prediction Using Prophet
Maximum Marks	4 Marks

Brainstorm & Idea Prioritization Template:

Brainstorming provides a free and open environment that encourages everyone within a team to participate in the creative thinking process that leads to problem solving. Prioritizing volume over value, out-of-the-box ideas are welcome and built upon, and all participants are encouraged to collaborate, helping each other develop a rich amount of creative solutions.

Use this template in your own brainstorming sessions so your team can unleash their imagination and start shaping concepts even if you're not sitting in the same room.

Reference: https://www.mural.co/templates/empathy-map-canvas

Step-1: Team Gathering, Collaboration and Select the Problem Statement



Step-2: Brainstorm, Idea Listing and Grouping





Vishnu

Creating a ML model to predict

Identify and collect historical Bitcoin price data from reliable sources

inclusion of additional relevant data sources, such as social media

Explore the

LSTM networks can be effective in capturing longterm dependencies in time series data.

FB Prophet model best suits for this time series data

Siddharth

Data Preprocessing clean the historical data to handle missing values,outliers,and normalize or scale the data to ensure consistency

Test the Bitcoin price predictionmodel in productiion and make necessary adjustments using evaluation metrics check accuracy of the model

Document the entire process ,including data preprocessing step,modeltraining ,and evaluaation methodologies.

Implement a mechanism for realtime updates, allowing the model to adapt quickly to new data and market conditions

Rithwik

Train the model on large dataset to increase accuracy.

Purushotham

Ensure that the deployed model can handle an increasing volume of data and requests

> Consider deploying the model on scalable cloud infrastructure to accommodate fluctuations in user

Group ideas

Take turns sharing your ideas while clustering similar or related notes as you go. Once all sticky notes have been grouped, give each cluster a sentence-like label. If a cluster is bigger than six sticky notes, try and see if you and break it up into smaller sub-groups.

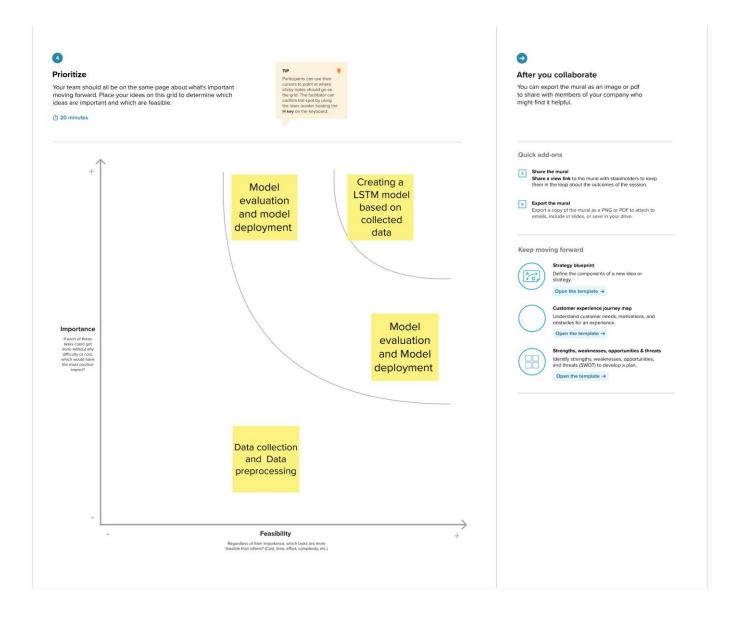


Data Collection and Data Preprocessing

Model evaluation and model deployment

Creating a LSTM model based on collected data

Scalability and Real-**Time Updates**



Link to our Mural:

https://app.mural.co/t/aiandmlproject0362/m/aiandmlproject0362/1699955679551/eca40dd257036941a6bf2226867ed4c02d097284?sender=u416c2bb3ce424fd41c606101