Project Design Phase-I Proposed Solution Template

| Date | 23 October , 2023 |
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| Team ID | Team - 592087 |
| Project Name | Project - Time Series Analysis For Bitcoin Price Prediction Using Prophet |
| Maximum Marks | 2 Marks |

Proposed Solution Template:

| S.No. | Parameter | Description |
|-------|--|--|
| 1. | Problem Statement (Problem to be solved) | Develop a robust time series forecasting model for Bitcoin price prediction using the Prophet library, aiming to provide accurate and interpretable forecasts, aiding traders and investors in making informed decisions amidst Bitcoin's high volatility. |
| 2. | Idea / Solution description | Create a predictive model using the Prophet library for Bitcoin price forecasting by collecting and preprocessing historical data. Evaluate and fine-tune the model for accuracy, generate informative visualizations, and provide |

| | | interpretable insights for effective decision-making by traders and investors in the cryptocurrency market. |
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| 3. | Novelty / Uniqueness | This project stands out due to its application of the Prophet library to forecast Bitcoin prices, addressing the challenges of an exceptionally volatile and non-traditional cryptocurrency market. Its focus on providing interpretable insights through visualizations and adaptability to different time intervals makes it distinctive in the field of cryptocurrency forecasting. |
| 4. | Social Impact / Customer Satisfaction | This project contributes to informed decision-making in the cryptocurrency market, potentially reducing financial risks and enhancing returns for investors. It empowers users with accurate predictions and insights, fostering greater trust and satisfaction among traders and investors in the volatile Bitcoin market. |
| 5. | Business Model (Revenue Model) | This business model leverages data, predictive analytics, and consulting to create revenue streams while addressing the needs of traders, investors, and cryptocurrency enthusiasts seeking reliable Bitcoin price forecasts. |

