Data Collection and Preprocessing Phase

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| Date | 3 october 2024 |
| Team ID | LTVIP2024TMID24963 |
| Project Title | Time Series Analysis For Bitcoin Price Pridiction |
| Maximum Marks | 2 Marks |

# Data Collection Plan & Raw Data Sources Identification Report:

Elevate your data strategy with the Data Collection plan and the Raw Data Sources report, ensuring meticulous data curation and integrity for informed decision-making in every analysis and decision-making endeavor.

# Data Collection Plan:

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| **Section** | **Description** |
| Project Overview | The machine learning project focuses on **Bitcoin Price Prediction** using **Time Series Analysis**. The objective is to forecast future Bitcoin prices by leveraging historical timestamp and closing price data. The model utilizes tree-based algorithms such as **Random Forest** and **Decision Tree** to address the volatile nature of cryptocurrency markets. The system allows users to input a specific date (Year, Month, Day) to receive a predicted Bitcoin price. This research aims to provide valuable insights into the predictive performance of these models in the volatile cryptocurrency market, offering guidance for informed trading decisions. |
| Data Collection Plan | - Search for datasets related to Bitcoin price movements and timestamps.  - Prioritize datasets that include detailed historical price information and timestamps for accurate time series forecasting.  - Gather additional data points, such as market sentiment or trading volume, to improve model performance.. |
| Raw Data Sources Identified | The raw data for Bitcoin price prediction will primarily be sourced from **cryptocurrency data providers** such as **Yahoo Finance**, **CoinGecko**, or **CoinMarketCap**, which offer historical price and trading volume data for Bitcoin.loan term, CIBIL score, and assets. |

**Raw Data Sources Report:**

