

Date	7 th November 2024
Team ID	SWTID1727321147
Project Name	Time Series Analysis For Bitcoin Price Prediction using Prophet
Minimum Marks	3 Marks

Data Collection Plan & Raw Data Sources Identification Template

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 forecasting endeavor.

Data Collection Plan Template

Section	Description
Project Overview	The machine learning project aims to predict Bitcoin prices using time series data. Utilizing historical data from Yahoo Finance, including features like open, high, low, close prices, and volume, the objective is to build a model that forecasts Bitcoin prices accurately using Prophet.
Data Collection Plan	- Fetch historical Bitcoin price data from Yahoo Finance using Python libraries such as <code>yfinance</code> .

- Ensure the dataset contains key features like open, close, high, low prices, and volume.
- Prioritize the collection of data spanning several years to capture long-term trends and seasonality.
- Clean and preprocess the data to handle missing values and format it for the Prophet model. |

Raw Data Sources Identified

The raw data sources for this project include Bitcoin price data obtained from Yahoo Finance and other relevant financial data repositories.

Raw Data Sources Template

Source Name	Description	Location/URL	Format	Size	Access Permissions
Yahoo Finance Bitcoin Data	Historical Bitcoin price data, including open, close, high, low prices, and volume, for time series forecasting.	BTC-USD	CSV	100MB	Public
