

Model Development Phase Template

Date	03 October 2024
Team ID	LTVIP2024TMID24963
Project Title	Time Series Analysis For Bitcoin Price Prediction
Maximum Marks	5 Marks

Feature Selection Report Template

Here is the **Feature Selection Report Template** tailored for the **Time Series Bitcoin Price Prediction** project, where each feature is accompanied by a description, whether it's selected, and the reasoning behind the selection:

Feature	Description	Selected (Yes/No)	Reasoning
Timestamp	The date and time associated with each Bitcoin price entry.	Yes	Essential for time series analysis, as it defines the sequence of events.
Open Price	The price of Bitcoin when the market opens for a given period.	Yes	Important for understanding the initial market sentiment and price trend.
Close Price	The closing price of Bitcoin for a specific time period (daily, hourly, etc.).	Yes	The primary feature for predicting Bitcoin price movements, as it represents the end of a trading period.
High Price	The highest price Bitcoin reached during the period.	Yes	Provides insight into market volatility and price fluctuations.
Low Price	The lowest price Bitcoin reached during the period.	Yes	Similar to High Price, helps in understanding price volatility and market behavior.
Volume	The amount of Bitcoin traded during the given period.	Yes	Indicates market activity and liquidity, which influences price movements.