

Proposal for Project

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Time Series Analysis
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You are required to submit your proposed dataset and a brief description of the project to Moodle before 23:55 on 21st March. There may be a review meeting with each student in the week beginning 22nd March to establish the suitability of the chosen project.

Based on the previous observations of the PayPal stock value, the aim of this project is to analysis, visualize, perform a diagnostic analysis, and **forecast values** for this stock.

The library implemented to extract market data is called **yfinance**. This library offers a reliable, threaded, and Pythonic way to download historical market data from Yahoo! finance. For my project, I will be focused on the PayPal stock (ticker symbol PYPL).

Another subsequently objective of this project is towards getting knowledge about the market and stocks, as I am interested in getting experience about this to invest in the market in a near future.

The dataset has de following columns:

Columns	Description	Type	
Date	Format: dd/mm/YY Frequency: Daily	Date	
Open	Stock value when market open	Decimal	
High	Highest value recorded in a day.	Decimal	
Low	Lowest value recorded in a day.	Decimal	
Close	Stock value when market close.	Decimal	
Volumn	Number of assets has traded in one day.	Integer	
Dividends	When company gives dividends	Boolean	This company does not give dividends. All values in this column are zero, therefore I am going to drop it.
Stock Splits		Boolean	All values in this column are zero, therefore I am going to drop it.

For more information about the library used: <https://pypi.org/project/yfinance/>.