Project Proposal

Stock Price PridicTor

***Faisal Malik***

Table of Contents

[Abstract 2](#_Toc72870651)

[*Purpose* 2](#_Toc72870652)

[*Scope/ Methodology/ Approach* 2](#_Toc72870653)

[*Tools/Programing* 2](#_Toc72870654)

[*Originality/Values* 2](#_Toc72870655)

[Project Proposal 3](#_Toc72870656)

[Data Sources 4](#_Toc72870657)

[ *Data Sources* 4](#_Toc72870658)

[ *Data Period* 4](#_Toc72870659)

[ *Limitations* 4](#_Toc72870660)

[Abbreviations 5](#_Toc72870661)

[Reference List 6](#_Toc72870662)

# ***Abstract***

Final Project for the Data Science and Visualization bootcamp

## *Purpose*

This report is to provide the information with relation to final project

## *Scope/ Methodology/ Approach*

Scope of this project is the historical data of stock exchanges ASX, DOW, NYSE

## *Tools/Programing*

Python

Machine Learning

## *Originality/Values*

The learning outcome of this project is understanding of Data Science, Visualization and Machine Learning.

# ***Project Proposal***

Stock market around the world generates heaps of data every day. Major portion of this data includes prices of companies. The price of stock may increase, decrease or remain unchanged. Most of the historical data is available freely. This data can be used for finding prices, fundamental, market trends, economic indicators and a lot more.

Using data science stock data can be plotted, visualized and prediction can be made based upon historic data. This can be used for quantitative based investing, forecasting and statistical arbitrage. The results may not be accurate enough as market and price movement depend upon many other factors as well.

In this project stock data will be extracted, cleaned and transformed using Python. Historical prices and trends will be plotted. Machine Learning will be applied to predict the future prices and trends.

# ***Data Sources***

* ***Data Sources***

Data Set from Quandl

* ***Data Period***

Stock market historic data limited to recent past 5 years

* ***Limitations***

Data used is for learning purpose only

# ***Abbreviations***

* ASX: Australian Stock Exchange
* NYSE: New York Stock Exchange

# ***Reference List***

* <https://www.quandl.com>/open-data