## 

**Applying Machine Learning Techniques to Maximize Returns on Stock Market Investment**

**GL Batch Dec18 – Group 2**

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# Introduction

Stock market goes up or down, and you can't adjust your portfolio based on the whims of the market, so you have to have a strategy in a position and stay true to that strategy and not pay attention to noise that could surround any particular investment - **John Paulson**.

Historically there were two school of thoughts in Stock Market first relies on the fundamental data of stocks and second relies on technical data of stocks. Off late after advent of machine learning tools and technologies; investors & traders started thinking to use apply new gained skills to predict stock price.

In stock market its’s not intellect that should drive your decision but it’s your insights that should drive your decision

Many researches have successfully devised ML models specific to stock markets needs using various techniques and most of them have got good results. Some have used fundamental data for helping them to decide on their investment decision. Few have used technical data for trading purpose. However, in any case weather the one is of fundamental type, technical type of qualitative type (using ML) all have to adhere basic process to invest/ trade in market.

There is well defined process already set up for the individuals those rely on fundamental or technical analysis, since in machine learning, which is pretty new, we saw there is no clear process defined to help individuals for informed decision.

We by this project taking attempt on defining a strategy where in individual with help of our project will Maximize return on their investment. We are planning to take best of both (fundamental and technical) the world and assist users in their informed decision. In a very high-level view, we propose to analyze Nifty Indices data to understand the seasonality of sectors and then finalize the stocks to invest on, moreover our analysis will also help them with the time frame that a user should be invested in particular security/es for maximum profit.

# Scope and Objectives

Can be derived from earlier paragraph

# Data Sources

Nifty indices historical data are downloaded from

<https://www.niftyindices.com/indices/equity/sectoral-indices>

Fundamental data with respect to required ratio and condition were download from

<https://www.screener.in/screen/raw/?sort=Market+Capitalization&order=desc&source=8117&query=Sales+growth+5Years+%3E+10+AND%0D%0AProfit+growth+5Years++%3E+10+AND%0D%0AMarket+Capitalization+%3E+5000+AND%0D%0ADebt+to+equity+%3C+0.5+AND%0D%0APrice+to+Earning+%3E+25%0D%0A>

Finalized stock’s historical data were downloaded from Yahoo Finance

<https://in.finance.yahoo.com/>

# Analytical Approach

< To be updated >

# Recommendations and Applications

< To be updated >

# References and Bibliography

< To be updated - I will update it >