Forex Trading Bot and Dashboard

Includes Data Analysis Dash Board + Regression + Classification algorithms + NLP for sentiment analysis

Aakash, Abhishek, Aditya, Pushpendra, Gourav, Rupesh

Objective

- Providing the key data analytics for taking manual decisions
- Providing the time to enter the market
- Providing the signals (Weather to buy or sell)
- Guiding how much to buy along with the future returns that can be expected
- Auto close the trade while maximizing the profit and minimizing the risk

Timeline and Issues

4th Aug Understanding & Planning



9th Aug – 10th Aug Model Building and Testing



11th Aug – 12th Aug Model Tuning and Deploying in AWS

- What is Forex Market?
- What are the factors that influence the market?
- How the big players takes the decision?
- How to collect the time series data?
- How to use sentiment analysis for finding the impacts of news/policies on the exchange rates.
- Work Planning

- Collect the time series forex data of the past 10 year
- Collect the forex news data and policy data(Including the sentiment of the policy and date)
- Feature Engineering
- Data Pre-processing

- Create a dash board using matplotlib which explains the story of the data and major policy changes and sentiments that affected the prices to change majorly
- Build Pycaret
- Apply different regression and classification models
- Apply Sentiment analysis and obtain the predictions
- Combine both the above and check with the accuracy
- If the accuracy is > 55%,Boom!!!
 You just created a money making machine!

- Create a basic website where everyday data can be given in .csv format
- Deploy the final model in AWS and the website
- Upload everything in github
- Enjoy!