Prediction for a change

A stock market price predictor

Team : byTeam

Domain

- A stock market price predictor by extracting data through Twitter API's, scraping data from websites and companies where stocks are heavily invested.
- Huge datasets of the history of stock prices will be analyzed to bring in more depth to the predictor.

The Problem

- A lot of people stay away from investing in the stock market due to it's unpredictable behavior. The markets when predicted well can bring up your wealth in leaps and bounds.
- More money does not always convert to reducing poverty rates and overall good of the community. A portion of the good money generated from the predictor would be utilized in an efficient way to fight poverty.

Approach

- The current price prediction models work only on the previous stock prices datasets. The model efficiency is not good enough as this does not consider the current major decisions taken by companies.
- Our model accounts for all the current changing scenarios by keeping our model updated with the latest trends through online data on the companies dealings with it’s competitors.

Benefeciaries

- Any individual who's interested in making huge profits and some quick money would be majorly benefitted.
- Moreover, the extra money made through these profits would be efficiently utilized in charity work to help the needy.

Technology used

- The stocker module would be used to prepare the dataset for previous stock prices. The n factors depending on the stock prices would be analyzed using the Support Vector Machines.
- To analyze the current trends and changes in the market, we use web scraping to scrape data from online websites of companies and sites that provide reliable news. Twitter API's would provide data on any major dealings of companies that would affect the markets. These data would be integrated into our main model to predict prices.
- To predict what's good and what's bad from the news we scrape about the company we are going to use a custom build on a NLP model and then decide the future of the company. We are even looking forward to verify sources using this technology and verify if a rumor is true using multiple sources.