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**Title :-** Predicting stock market movements using machine learning and natural language processing .

**Summary :-**

Twitter is one of the most popular social media websites and has been growing rapidly since its creation. In this project, we investigate the complex relationship

between Twitter feed literature (like volume, variety, agreement etc) with the financial market movements (like opening & closing stock, volatility, trading volume and stock prices). Sentiment information extracted from these feeds by training our learning model can be used to predict future shifts in prices, to predict the stock market movements. We investigate whether measurements of collective mood states derived from largescale Twitter feeds are correlated to the stock market movements over time.

**Stock Market** - A stock market is the aggregation of buyers and sellers of stocks (shares); these are securities listed on a stock exchange as well as those only traded privately. In other words it's a very huge pool of buyers and sellers trying to make money. A stock market is always unpredictable with the values changing rapidly.

**Sources of Information** - Popular sites like yahoo news & google news have large chunks of research data regarding the stock market in real time.

**Areas of Application of our project :-**

* Forex Trading
* Investor's portfolio for prediction
* To arrive at happiness index of the customers
* Predicting Stock market moods
* As a competitive marketing tool

**Tools:-** R-Studio,python