

# Glass Tiding with Reddit and Stocks

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**Abstract:** *Reddit has become a major hub for communication, discussion, and sharing of thoughts, opinions, personal experiences, as well as news related to brands, products, services, and more. In today's world, it's important to find relevant posts on Reddit for news articles because people trust the opinions of the community more than traditional news sources. Some news channels may report old or fake news, but Reddit can provide real-time updates and trending news. In this project, we aim to find relevant Reddit posts for news articles and analyze their impact on the stock market.*

*Investors are always aware of the stock market's behavior, and it can affect their emotions and decision-making when buying or selling shares. Financial sentiment analysis allows us to understand the effect of social media reactions and emotions on the stock market and vice versa. In this project, we analyze Reddit data and important worldwide financial indices to answer the following question:*

*How does the polarity generated by Reddit posts influence the behavior of financial indices?*

*Users can also upvote or downvote the news article to show their opinion about that particular news. They can share the news article with family and friends on different social media platforms and subscribe to get the latest notifications. Reddit's community-driven platform can provide valuable insights into the sentiment of investors and their impact on the stock market.*  
**Keywords:** *relevant tweets, financial sentiment, stock market, official tweets..*

**Keywords:** relevant Reddit posts, financial sentiment, stock market, community-driven platform, real-time updates

## I. INTRODUCTION

Glass Tidings with Stocks and Reddit, as the name of the project suggests, aims to provide a platform for users to easily access relevant Reddit posts related to business news. In today's world, people trust community-driven platforms like Reddit more than traditional news sources. Some news channels may show a biased perspective or incomplete information, which can influence people's decision-making. In this project, we strive to find relevant Reddit posts for business news articles, which will save users time and effort.

Additionally, we plan to display a stock market graph to demonstrate the impact of business news on the stock market. As news can have a significant impact on economic conditions and the stock market, it's important to understand how news affects the market's behavior. Users can view the stock market graph and Reddit posts side by side to make informed decisions. For example, when footballer Cristiano Ronaldo put aside two bottles of Coca-Cola and picked up a water bottle during a press conference, Coca-Cola's stock price dropped by \$4 billion. Similarly, when Tesla CEO Elon Musk suggested that his Twitter followers use Signal, investors pushed the stock price of Signal Advance, a small component manufacturer, even higher. Investors are constantly aware of the stock market's behavior, and news can influence their emotions and decision-making when buying or selling shares.

Glass Tidings with Stocks and Reddit aims to provide users with a convenient and reliable platform to access business news and related Reddit posts. Users can share and subscribe to news for sharing news on social media and for getting other daily news updates of business news. The website will be built using Python for backend programming, ReactJS for frontend, Beautiful Soup and SNS to scrape relevant Reddit posts. Our platform will provide users with a seamless experience to read business news, easily find relevant Reddit posts, and view the stock market graph. The platform will provide valuable insights into the sentiment of investors and their impact on the stock market.

## II. PROPOSED SYSTEM

Traditionally, people have believed in whatever is shown on news channels, but some of them are now influencing people by showing negative news as positive and hiding the real scenario, which is the core job of a news channel. Therefore, it's important to know people's points of view without blindly believing what is shown. This project aims to build a platform to provide users not only with the news but also with the effects of that news on different stocks and people's opinions. Glass tiding is a website that anyone around the world can use to get the correct perspective of people without any interference from a third party on the latest news with the help of tweets. This project provides a one-stop destination to know all the effects of a particular news, whether it's people's sentiment or the market.

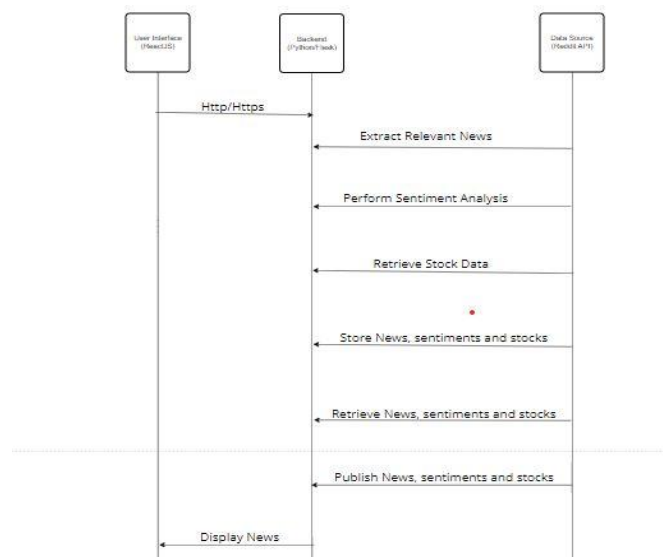


Fig 1. System Architecture

## III. METHODOLOGY

### Beautiful Soup

It is used to scrape information from the web. It is a python library that provide simple ways to navigate, search and modify data in HTML and XML files. It can also automatically convert document to unicode.

It helps programmer to save huge amount of time and efforts.

It is the most popular library from scraping propose.

To install BeautifulSoup, run the following code in python distribution:

```
pip install beautifulsoup4
```

we also need to import the requested module to give to beautifulSoup with the HTML code of any page

It can be done using the command

```
pip install requests
```

We will be using this program to get the latest news from web and display it on our user interface.

--TextBlog:

TextBlog is used to for processing textual data. It is a python library. It divides text into common NLP tasks such as Part-of-speech, noun phrase extraction, classification, sentiment analysis, translation and more.

By default, it builds a pattern graph. This pattern graph is build using pattern analysis to recognize sections of speech.

To install TextBlog , run the following commands on the python distribution

```
pip install -U TextBlog
```

```
python -m textblog .download_corpora.
```

In this project, textBlog is used to process the data of news and find the keyword which will further be used to exact the tweet that will be relevant to the particular news.

#### IV. FUTURE SCOPE

The system is designed by taking into consideration all the requirements of a user to get a fair perspective of news without any biases but there can be improvements and we accept the drawbacks of our system.

The system can provide a comment section where people can share their opinions and express their thoughts to any news, so that apart from tweets comment section can also be valuable for your users.

We can also provide a fake news generate so that people can read only the news that are true and none can influence the user by publishing false news.

The system can also provide a text to voice conversion, so that people who cannot read can hear the news article.

Also, we can have a feature which convert news article to various languages, so that user gets the benefit to read and listen the news in their native language.

There is no single software which matches is perfect, requirements are changing every day and will be present in future also, we are trying to match our software with the changing requirements to the best.

#### V. CONCLUSION

By considering all the positive points and constraints of the software, it can be concluded that the system is highly efficient. It is user friendly and can be used anywhere using laptop or mobile phone with an internet connection.

In this paper we try to tell all the uses and benefits of our system. Also we try to provide our users all aspect of a particular news and they can also contribute their thoughts and can know others opinion on it.

We try to aware people about how can a particular news affect the stock market and user can invest accordingly to get the maximum profit or reduce their losses in stock exchange.