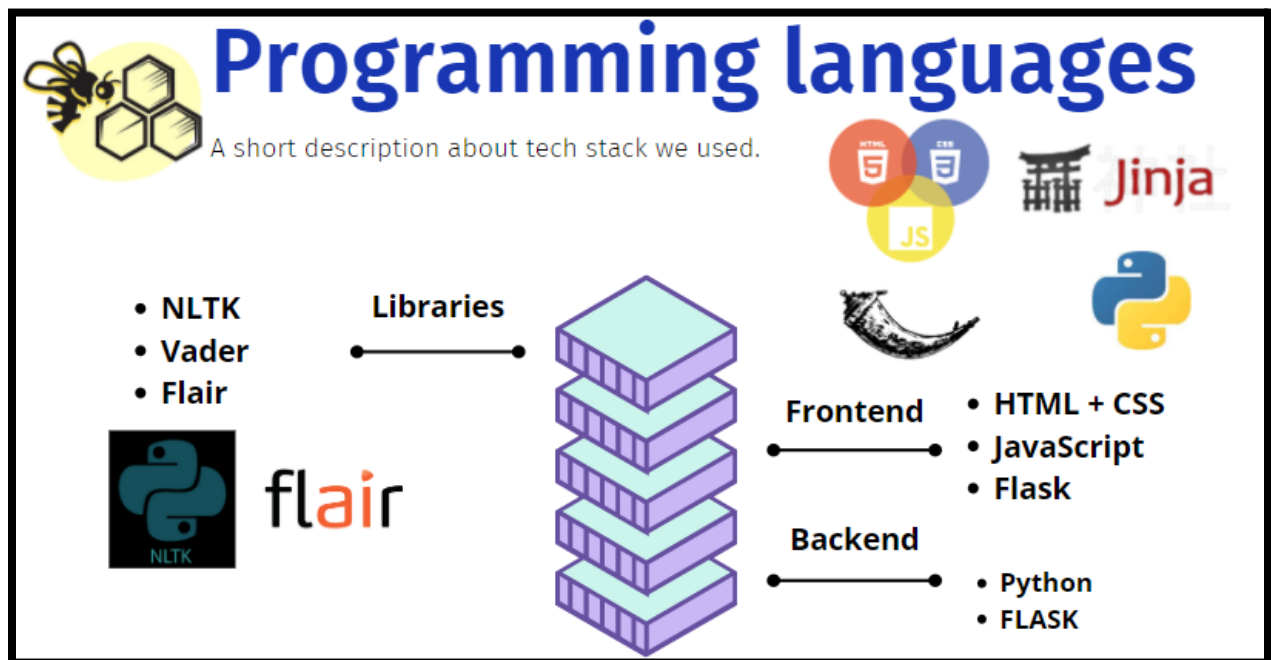




StockBeez

Programming Languages used:

The programming languages that we are using for Stockbeez can be divided into frontend and backend. For the frontend, we are using **JavaScript** along with **HTML** and **CSS** while we are using **Jinja** as a templating engine to render the pages. For the backend, we are using **Python** for our natural language processing models and web scraping while using **Flask** as a web framework to build our web application.



Programming Domains

Following are the programming domains involved in the project -

Web Development:

building a set of web pages for our intended applications. Making the web pages interactive with respect to user input. Handling get and post requests.

NLP (Natural Language Processing):

NLP is a collective term referring to the automatic computational processing of human languages. Here we use NLP for sentiment analysis for categorizing the vast amounts of major headlines from prominent websites like Yahoo Finance, CNBC, MoneyControl, LiveMint and MarketWatch.

Brief about the project :

Topic : Sentimental Analysis for Stock Prediction using Twitter Data

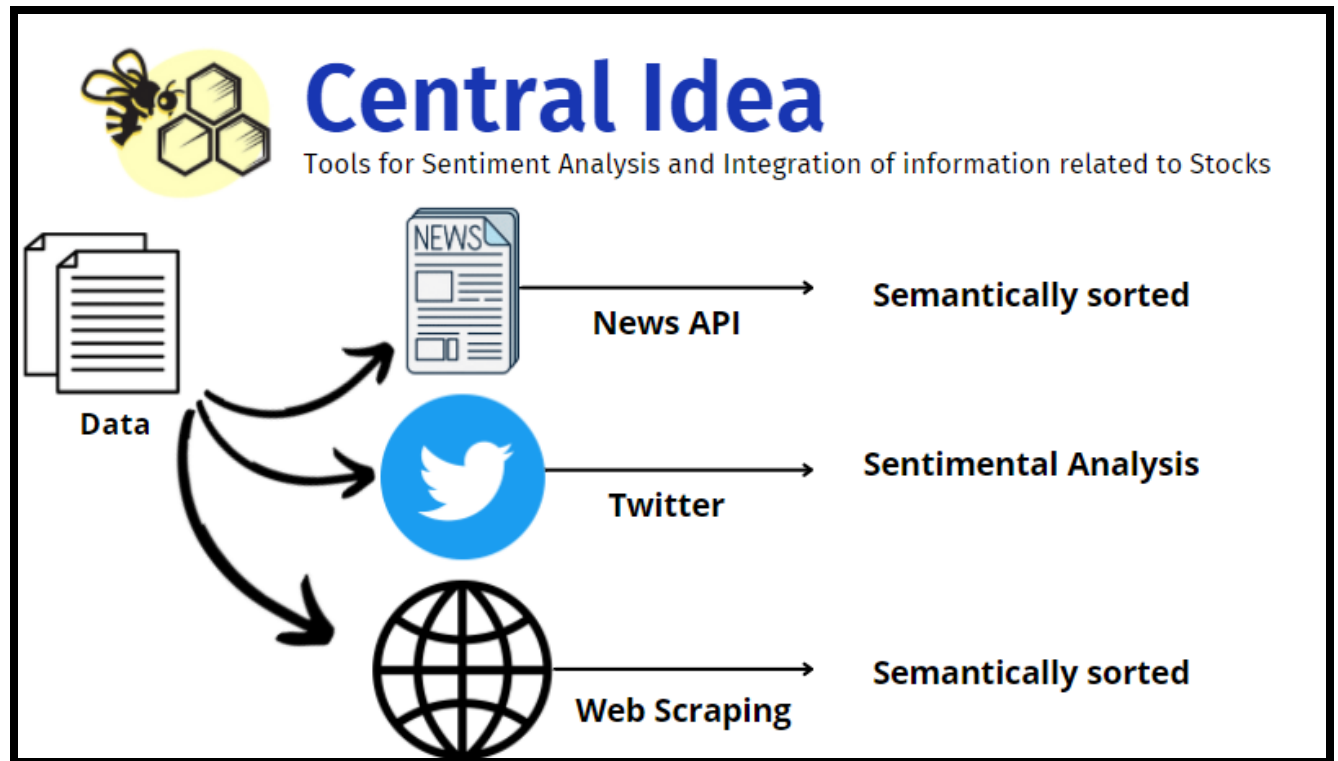
The world of stock is a world full of change. It generates a flood of information and picking out the essence out of this vast sea of information is our motive.

Stock prices are affected by social factors, economic factors, demand & supply and near term sentiment for the stocks or commodities. Stock prices rise and fall every due to variations in supply and demand, and public sentiment. Social media platforms like Twitter is the prominent platform to share emotions about any topic and significantly impact overall public opinion. It has been observed that the changes in stock prices are correlated with the public opinions.

At Stockbeez we thus aim to integrate the vast sea of information related to stocks and provide tools for sentiment analysis of stock related information.

For our aim we turned to Natural Language Processing and Web Scraping. We semantically sort and display the scraped information from prominent websites in stock like Finviz, MoneyControl, LiveMint, CNBC, Yahoo Finance, Economic Times and MarketWatch.

We also provide a tool with the help of Twitter API to view sentiment related to specific companies which might help the users to understand the dynamics of stocks better.



Program Flow :

Landing Page (with brief description of the project)

Go to Dashboard -->

News At a Glance Page : Before you start analyzing a select stock, it's a good idea for the user to get an overall Idea of the market.

For this we are using scraping data from various websites (viz. Finviz, moneycontrol, Yahoo Finance) to show you a custom dashboard by which the user will get a general understanding of the stock market.

Now when the user wants to search for a specific stock, a text box is given where the user enters the company of his choice which he wants to analyze deeper.

When the user clicks submit he is greeted with the following :

- 1) **Company specific news** : Curated news which are relevant only to the company that the user wants
- 2) **A host of curated widgets** :

- a) Stock Overview Widget
 - b) Advanced Real-Time Chart Widget
 - c) Technical analysis
 - d) Fundamental analysis
- 3) **Semantic breakdown from twitter** : The user's select company is taken and is analyzed with
- 4) **Word Cloud** : A word cloud is a visual representation of text data, which is often used to depict keyword metadata on websites, or to visualize free form text. Tags are usually single words, and the importance of each tag is shown with font size or color.



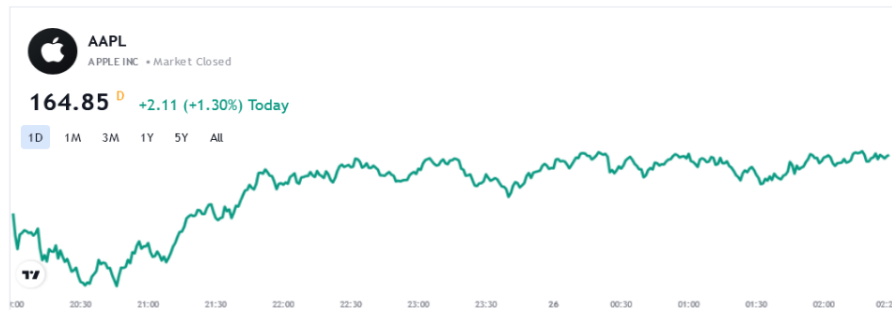
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Stockbeez

Now get Sentimental Analysis of your stocks

[Go to Dashboard](#)





AAPL Stock Price Today by TradingView



AAPL Chart by TradingView

AAPL Financials

Valuation

Market Capitalization	2.69T
Enterprise Value (MRQ)	2.971T
Enterprise Value/EBITDA	21.1317
Total Shares Outstand...	16.319B
Number of Employees	154K
Number of Shareholders	23.502K
Price to Earnings Ratio...	27.0184
Price to Revenue Ratio (...)	7.0989
Price to Book (FY)	42.3727
Price to Sales (FY)	7.5027

Balance Sheet

Quick Ratio (MRQ)	0.9980
Current Ratio (MRQ)	1.0378
Debt to Equity Ratio (MRQ)	1.7071
Net Debt (MRQ)	58.885B
Total Debt (MRQ)	122.798B
Total Assets (MRQ)	381.191B

Operating Metrics

Return on Assets (TTM)	0.2735
Return on Equity (TTM)	1.4557
Return on Invested Capital	0.5845
Revenue per Employee (...)	2.375M

Price History

Average Volume (10 day)	87.697M
1-Year Beta	1.2860
52 Week High	182.9400
52 Week Low	116.2100

Dividends

Dividends Paid (FY)	-14.467B
Dividends Yield (FY)	0.5338
Dividends per Share (FY)	0.8500

Margins

Net Margin (TTM)	0.2655
Gross Margin (TTM)	0.4321
Operating Margin (TTM)	0.3110
Pretax Margin (TTM)	0.3086

Income Statement

Basic EPS (FY)	5.6690
Basic EPS (TTM)	6.0772
EPS Diluted (FY)	5.6140
Net Income (FY)	94.68B
EBITDA (TTM)	129.099B
Gross Profit (MRQ)	54.243B
Gross Profit (FY)	152.836B
Last Year Revenue (FY)	365.817B
Total Revenue (FY)	365.817B
Free Cash Flow (TTM)	101.853B

Technical Analysis for AAPL



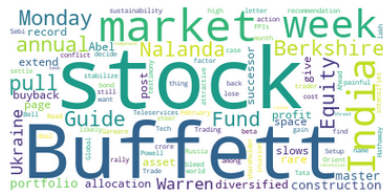
Technical Analysis for AAPL by TradingView

AAPL Fundamental Data by TradingView

Latest News Headlines

WordCloud

Generate Wordcloud



General Report

The Average Sentiment is Neutral

44.769375



Stockbeez

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