You can get Realtime stock market, news, and financial data from various APIs. One of the examples is. <https://finnhub.io/>

You can create your api key over there and install package finnhub-python and start using it to fetch the data. Please find below small example:

# Sentiment analysis on new related to Apple #

import finnhub

import pandas as pd

from textblob import TextBlob

# Setup client

finnhub\_client = finnhub.Client(api\_key='ADD YOUR API KEY HERE’)

res = finnhub\_client.company\_news('AAPL', \_from="2024-01-01", to="2024-01-31")

z= pd.DataFrame(res)

z['headline\_sentiment'] = z['headline'].apply(lambda x:TextBlob(x).sentiment.polarity)

z['summary\_sentiment'] = z['summary'].apply(lambda x:TextBlob(x).sentiment.polarity)

**NLP use cases:**

Sentiment analysis

Impact of Sentiment on stock market price

Time series prediction of stock value using various features.

Named Entity Recognition on news data.