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Sentimental Analysis on Articles using Python

Sentiment Analysis:

Sentiment analysis (also known as opinion mining or emotion AI) is the use of natural language processing, text analysis, computational linguistics, and biometrics to systematically identify, extract, quantify, and study affective states and subjective information. More (https://en.wikipedia.org/wiki/Sentiment analysis)

Python:

Python is a high-level, general-purpose programming language. Its design philosophy emphasizes code readability with the use of significant indentation. Its language constructs and object-oriented approach aim to help programmers write clear, logical code for small- and large-scale projects. More (https://en.wikipedia.org/wiki/Python (programming language))

NLTK:

The Natural Language Toolkit, or more commonly NLTK, is a suite of libraries and programs for symbolic and statistical natural language processing (NLP) for English written in the Python programming language. It was developed by Steven Bird and Edward Loper in the Department of Computer and Information Science at the University of Pennsylvania. More (https://en.wikipedia.org/wiki/Natural Language Toolkit)

TextBlob:

TextBlob is a python library and offers a simple API to access its methods and perform basic NLP tasks. A good thing about TextBlob is that they are just like python strings. So, you can transform and play with it same like we did in python. Below, I have shown you below some basic tasks. Don't worry about the syntax, it is just to give you an intuition about how much-related TextBlob is to Python strings. More (https://www.analyticsvidhya.com/blog/2018/02/natural language-processing-for-beginners-using-textblob)

Newspaper:

Newspaper is a Python module used for extracting and parsing newspaper articles. Newspaper use advance algorithms with web scraping to extract all the useful text from a website. It works amazingly well on online newspapers websites. More (https://www.geeksforgeeks.org/newspaper-article_scraping-curation-python/)

Code:

```
from typing import Text
from textblob import TextBlob
from newspaper import Article
```

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```
url='https://economictimes.indiatimes.com/markets/forex/rupee-falls-
for-4th-day-against-usd-settles-19-paise-down-at-74-
74/articleshow/84063532.cms' #negative news
#url='https://economictimes.indiatimes.com/markets/expert-
view/sentiments-have-turned-positive-we-are-in-for-a-good-time-says-mm-
fins-ramesh-iyer/articleshow/86395149.cms' #positive news

article=Article(url)

article.download()
article.parse()
article.nlp()

text=article.summary
print(text)

blob=TextBlob(text)

sentiment=blob.sentiment.polarity #-1 to 1
print("Sentiment for the news is: ",sentiment)
```

Output:

```
Stock Analysis - Know before investing Stock score of LKP Securities
Ltd moved down by 1 in 6 months on a 10-point scale.
Subscribe Now Exclusively forStock Analysis Stock score of LKP
Securities Ltd is 3 on a scale of 10.
View Stock Analysis »MUMBAI: The rupee declined for the fourth straight
day to end 19 paise lower at 74.74 (provisional) against the US
currency on Friday as a firmand expectations of further spike in crude
oil prices weighed on investor sentiment At the interbank foreign
exchange market, the rupee opened on a negative note at 74.71 per
dollar against its previous close of 74.55.
It hovered in the range of 74.65 to 74.87 per dollar during the day
before ending at 74.74.The domestic currency has lost 55 paise in the
four trading sessions to Friday.
"Rupee witnessed a weak trend as OPEC+ delayed production info, which
indicates at no increase in production which can make crude expensive
going ahead.
Sentiment for the news is: -0.23518518518518516
```

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