

# Simple Sentiment Analysis on Articles using Python

## Description

- **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)  
([https://en.wikipedia.org/wiki/Sentiment\\_analysis](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))  
([https://en.wikipedia.org/wiki/Python\\_\(programming\\_language\)](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 \(https://en.wikipedia.org/wiki/Natural\\_Language\\_Toolkit\)](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 \(https://www.analyticsvidhya.com/blog/2018/02/natural-language-processing-for-beginners-using-textblob/\)](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 \(https://www.geeksforgeeks.org/newspaper-article-scraping-curation-python/\)](https://www.geeksforgeeks.org/newspaper-article-scraping-curation-python/)

### Code

```
In [ ]: from typing import Text
        from textblob import TextBlob
        from newspaper import Article

        url=https://timesofindia.indiatimes.com/city/mumbai/maharashtra-has-merely-7-active-co
        #url= https://indianexpress.com/article/india/air-india-cancels-delhi-moscow-flight-ov

        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)
```

"Air India has reached out to the government of India seeking its intervention in the matter so that flights to Moscow could be resumed as soon as possible," one of them said on Thursday.

"All free testing centres continue to operate and people should get tested if they have symptoms. We are also advising people to use masks in crowded places, such as while travelling in trains," he said.

"The insurance companies have only flagged a concern over aircraft landing in Russia, not with the overflight through the Russian airspace.