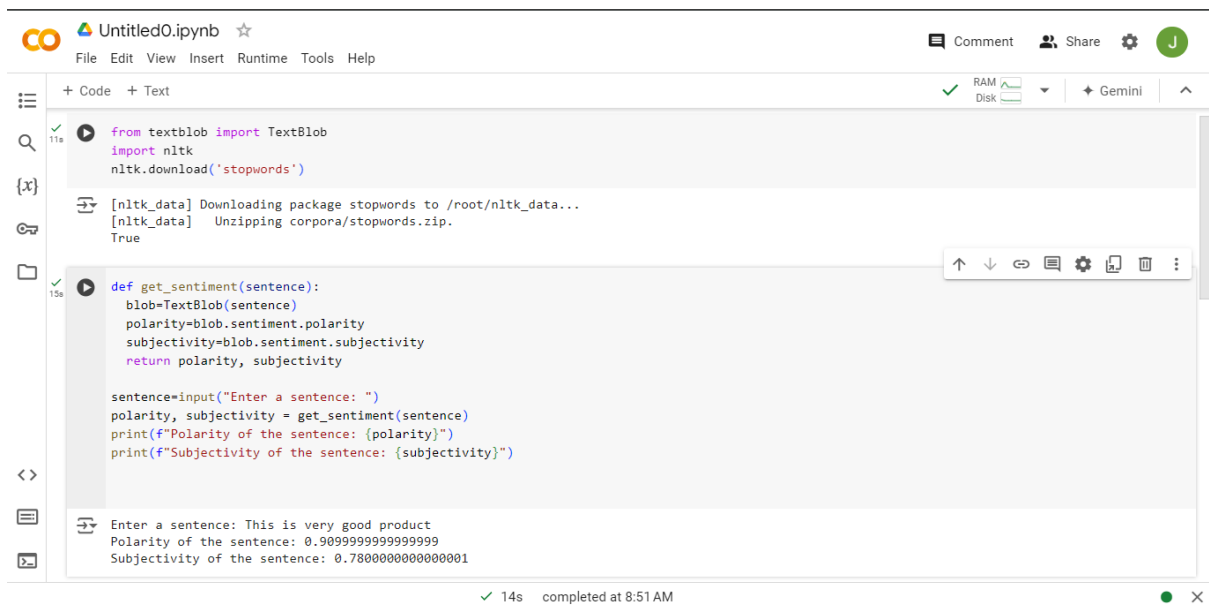


Sentiment Analysis and Polarity detection

HU22CSEN0100287

17-10-2024



The screenshot displays a Jupyter Notebook titled 'Untitled0.ipynb'. The interface includes a top menu bar with 'File', 'Edit', 'View', 'Insert', 'Runtime', 'Tools', and 'Help'. On the right, there are buttons for 'Comment', 'Share', and a user profile icon. The left sidebar shows icons for file management, search, and other notebook functions. The main area contains two code cells. The first cell imports 'TextBlob' and 'nltk', and downloads stopwords. The second cell defines a function 'get_sentiment' that uses 'TextBlob' to analyze a sentence's polarity and subjectivity. Below the code, the output shows the results for the sentence 'This is very good product'.

```
from textblob import TextBlob
import nltk
nltk.download('stopwords')
```

```
[nltk_data] Downloading package stopwords to /root/nltk_data...
[nltk_data] Unzipping corpora/stopwords.zip.
True
```

```
def get_sentiment(sentence):
    blob=TextBlob(sentence)
    polarity=blob.sentiment.polarity
    subjectivity=blob.sentiment.subjectivity
    return polarity, subjectivity

sentence=input("Enter a sentence: ")
polarity, subjectivity = get_sentiment(sentence)
print(f"Polarity of the sentence: {polarity}")
print(f"Subjectivity of the sentence: {subjectivity}")
```

```
Enter a sentence: This is very good product
Polarity of the sentence: 0.9099999999999999
Subjectivity of the sentence: 0.7800000000000001
```

✓ 14s completed at 8:51 AM

Untitled0.ipynb ☆

File Edit View Insert Runtime Tools Help

Comment Share Settings J

+ Code + Text


✓ 11s [1] [nltk_data] Downloading package stopwords to /root/nltk_data...
[nltk_data] Unzipping corpora/stopwords.zip.
True

✓ 7s

```
def get_sentiment(sentence):  
    blob=TextBlob(sentence)  
    polarity=blob.sentiment.polarity  
    subjectivity=blob.sentiment.subjectivity  
    return polarity, subjectivity  
  
sentence=input("Enter a sentence: ")  
polarity, subjectivity = get_sentiment(sentence)  
print(f"Polarity of the sentence: {polarity}")  
print(f"Subjectivity of the sentence: {subjectivity}")
```

Enter a sentence: This is worst one
Polarity of the sentence: -1.0
Subjectivity of the sentence: 1.0

✓ 6s completed at 8:52 AM

Untitled0.ipynb ☆

File Edit View Insert Runtime Tools Help All changes saved

Comment Share Settings J

+ Code + Text


✓ 11s [1] [nltk_data] Downloading package stopwords to /root/nltk_data...
[nltk_data] Unzipping corpora/stopwords.zip.
True

✓ 5s

```
def get_sentiment(sentence):  
    blob=TextBlob(sentence)  
    polarity=blob.sentiment.polarity  
    subjectivity=blob.sentiment.subjectivity  
    return polarity, subjectivity  
  
sentence=input("Enter a sentence: ")  
polarity, subjectivity = get_sentiment(sentence)  
print(f"Polarity of the sentence: {polarity}")  
print(f"Subjectivity of the sentence: {subjectivity}")
```

Enter a sentence: It is Ok
Polarity of the sentence: 0.5
Subjectivity of the sentence: 0.5

✓ 5s completed at 8:52 AM

Untitled0.ipynb ☆

File Edit View Insert Runtime Tools Help

Comment Share Settings J

+ Code + Text

✓ 11s [1] [nltk_data] Downloading package stopwords to /root/nltk_data...
[nltk_data] Unzipping corpora/stopwords.zip.
True

✓ 21s

```
def get_sentiment(sentence):  
    blob=TextBlob(sentence)  
    polarity=blob.sentiment.polarity  
    subjectivity=blob.sentiment.subjectivity  
    return polarity, subjectivity  
  
sentence=input("Enter a sentence: ")  
polarity, subjectivity = get_sentiment(sentence)  
print(f"Polarity of the sentence: {polarity}")  
print(f"Subjectivity of the sentence: {subjectivity}")
```

Enter a sentence: Movie is neutral
Polarity of the sentence: 0.0
Subjectivity of the sentence: 0.0

✓ 21s completed at 8:54 AM

Untitled0.ipynb

File Edit View Insert Runtime Tools Help All changes saved

+ Code + Text

✓ 11s [1] [nlTK_data] Downloading package stopwords to /root/nltk_data...
[nlTK_data] Unzipping corpora/stopwords.zip.
True

✓ 24s

```
def get_sentiment(sentence):  
    blob=TextBlob(sentence)  
    polarity=blog.sentiment.polarity  
    subjectivity=blog.sentiment.subjectivity  
    return polarity, subjectivity  
  
sentence=input("Enter a sentence: ")  
polarity, subjectivity = get_sentiment(sentence)  
print(f"Polarity of the sentence: {polarity}")  
print(f"Subjectivity of the sentence: {subjectivity}")
```

Enter a sentence: I find the series quite interesting
Polarity of the sentence: 0.5
Subjectivity of the sentence: 0.5

✓ 24s completed at 8:54 AM

Untitled0.ipynb

File Edit View Insert Runtime Tools Help

+ Code + Text

✓ 11s [1] [nlTK_data] Downloading package stopwords to /root/nltk_data...
[nlTK_data] Unzipping corpora/stopwords.zip.
True

✓ 8s

```
def get_sentiment(sentence):  
    blob=TextBlob(sentence)  
    polarity=blog.sentiment.polarity  
    subjectivity=blog.sentiment.subjectivity  
    return polarity, subjectivity  
  
sentence=input("Enter a sentence: ")  
polarity, subjectivity = get_sentiment(sentence)  
print(f"Polarity of the sentence: {polarity}")  
print(f"Subjectivity of the sentence: {subjectivity}")
```

Enter a sentence: Quite boring
Polarity of the sentence: -1.0
Subjectivity of the sentence: 1.0

✓ 8s completed at 8:56 AM