Assignment 3 Set A3

March 23, 2024

1 Consider the following review messages. Perfomr Sentiment analysis on the messages.

[1]:
```
from nltk.sentiment.vader import SentimentIntensityAnalyzer

vader_analyzer=SentimentIntensityAnalyzer()

text1 = "I purhased headphones online. I am very happy with the product."

print(vader_analyzer.polarity_scores(text1))
```

```
{'neg': 0.0, 'neu': 0.667, 'pos': 0.333, 'compound': 0.6115}
```

[2]:
```
from nltk.sentiment.vader import SentimentIntensityAnalyzer

vader_analyzer=SentimentIntensityAnalyzer()

text2 = "I saw the movie yesterday. The animation was really good but the␣
 ↪script was ok."

print(vader_analyzer.polarity_scores(text2))
```

```
{'neg': 0.0, 'neu': 0.71, 'pos': 0.29, 'compound': 0.5989}
```

[3]:
```
from nltk.sentiment.vader import SentimentIntensityAnalyzer

vader_analyzer=SentimentIntensityAnalyzer()

text3 = "I enjoy listening to music."

print(vader_analyzer.polarity_scores(text3))
```

```
{'neg': 0.0, 'neu': 0.484, 'pos': 0.516, 'compound': 0.4939}
```

[4]:
```
from nltk.sentiment.vader import SentimentIntensityAnalyzer

vader_analyzer=SentimentIntensityAnalyzer()
```

```
text4 = "I take a walk in the park everyday."

print(vader_analyzer.polarity_scores(text4))
```

```
{'neg': 0.0, 'neu': 1.0, 'pos': 0.0, 'compound': 0.0}
```

2 Overall Sentiment Analysis of the given Statements.

[5]:
```
from nltk.sentiment.vader import SentimentIntensityAnalyzer

vader_analyzer=SentimentIntensityAnalyzer()

text1 = "I purhased headphones online. I am very happy with the product."

result1=vader_analyzer.polarity_scores(text1)

print("The sentence is rated as ",result1['pos']*100,"% Positive")
print("The sentence is rated as ",result1['neg']*100,"% Negative")
print("The sentence is rated as ",result1['neu']*100,"% Neutral")
if result1['compound']>=0.05:
    print("Overall rating for sentence is Positive")
elif result1['compound']<=-0.05:
    print("Overall rating for sentence is Negative")
else:
    print("Overall rating for sentence is neutral")
```

```
The sentence is rated as  33.300000000000004 % Positive
The sentence is rated as  0.0 % Negative
The sentence is rated as  66.7 % Neutral
Overall rating for sentence is Positive
```

[6]:
```
from nltk.sentiment.vader import SentimentIntensityAnalyzer

vader_analyzer=SentimentIntensityAnalyzer()

text2 = "I saw the movie yesterday. The animation was really good but the␣
 ↪script was ok."

result2=vader_analyzer.polarity_scores(text2)

print("The sentence is rated as ",result2['pos']*100,"% Positive")
print("The sentence is rated as ",result2['neg']*100,"% Negative")
print("The sentence is rated as ",result2['neu']*100,"% Neutral")
if result2['compound']>=0.05:
    print("Overall rating for sentence is Positive")
```

```
elif result2['compound']<=-0.05:
    print("Overall rating for sentence is Negative")
else:
    print("Overall rating for sentence is neutral")
```

```
The sentence is rated as  28.999999999999996 % Positive
The sentence is rated as  0.0 % Negative
The sentence is rated as  71.0 % Neutral
Overall rating for sentence is Positive
```

[7]:
```
from nltk.sentiment.vader import SentimentIntensityAnalyzer

vader_analyzer=SentimentIntensityAnalyzer()

text3 = "I enjoy listening to music."

result3=vader_analyzer.polarity_scores(text3)

print("The sentence is rated as ",result3['pos']*100,"% Positive")
print("The sentence is rated as ",result3['neg']*100,"% Negative")
print("The sentence is rated as ",result3['neu']*100,"% Neutral")
if result3['compound']>=0.05:
    print("Overall rating for sentence is Positive")
elif result3['compound']<=-0.05:
    print("Overall rating for sentence is Negative")
else:
    print("Overall rating for sentence is neutral")
```

```
The sentence is rated as  51.6 % Positive
The sentence is rated as  0.0 % Negative
The sentence is rated as  48.4 % Neutral
Overall rating for sentence is Positive
```

[8]:
```
from nltk.sentiment.vader import SentimentIntensityAnalyzer

vader_analyzer=SentimentIntensityAnalyzer()

text4 = "I take a walk in the park everyday."

result4=vader_analyzer.polarity_scores(text4)

print("The sentence is rated as ",result4['pos']*100,"% Positive")
print("The sentence is rated as ",result4['neg']*100,"% Negative")
print("The sentence is rated as ",result4['neu']*100,"% Neutral")
if result4['compound']>=0.05:
    print("Overall rating for sentence is Positive")
elif result4['compound']<=-0.05:
```

```
    print("Overall rating for sentence is Negative")
else:
    print("Overall rating for sentence is neutral")
```

```
The sentence is rated as  0.0 % Positive
The sentence is rated as  0.0 % Negative
The sentence is rated as  100.0 % Neutral
Overall rating for sentence is neutral
```

[ ]: