

Worksheet

EXPERIMENT – 5

Aim:

Derive insights from unstructured text using machine learning custom models to classify, extract, and detect sentiments

Requirements:

PC with internet connectivity, Python 3.7

Program Code:

```
# Sentiment Analysis

import nltk

from textblob import TextBlob

from textblob import Word

text = input("Enter the text you want to analyze\n")

obj = TextBlob(text)

sentiment, subjectivity = obj.sentiment

#print(sentiment, subjectivity)

print(obj.sentiment)

if sentiment == 0:
```

Prepared By: Divneet Singh Kapoor & Kiran Jot Singh

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print('The text is neutral')
elif sentiment > 0:
    print('The text is positive')
else:
    print('The text is negative')

nouns = list()
for word, tag in obj.tags:
    if tag == 'NN':
        nouns.append(word.lemmatize())

print("\nThis text is about...\n")
for item in nouns:
    word = Word(item)
    print(word.pluralize())
```

Expected Outcome:

- *List down all the commands used*
- Find and extract the opinionated data (aka sentiment data) on a specific platform (customer support, reviews, etc.)
- Determine its polarity (positive or negative)
- Define the subject matter (what is being talked about in general and specifically)
- Identify the opinion holder (on its own and in correlation with the existing audience segments)
- There are two lists of words. One of them includes only the positive ones, the other includes negatives.
- The algorithm goes through the text, finds the words that match the criteria.
- After that, the algorithm calculates which type of words is more prevalent in the text. If there are more positive words, then the text is deemed to have a positive polarity.

- *Paste step by step screenshots*

```

Python 3.7.9 Shell
File Edit Shell Debug Options Window Help
Python 3.7.9 (tags/v3.7.9:13c94747c7, Aug 17 2020, 18:58:18) [MSC v.1900 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:/Users/ASUS/Downloads/sentiment.py =====
Enter the text you want to analyze
First of all, we MUST NOT compare the two series. "Crime", "Thriller", "Action" are the common genre between these two series. However, Mirzapur has done tremendous justice to it's script and carved out a niche space for itself. I had watched Sacred Games just a week before Mirzapur and after reading the panning reviews of Mirzapur, I decided not to watch it. One of my close friends - Sasi, told me to forget about the review(s) and give the first episode a try. I would like to quote him here: "It is far better than the number of stars the critics have awarded." HE WAS DAMN RIGHT. Sacred Games has used the terms of ancient Indian history (or mythology, whichever word you would like to use) to narrate the story. Mirzapur doesn't have that level of narration - Yes! ... But you would be gravely mistaken to take this point against Mirzapur. Each and every episode is gripping with sometimes gory and sometimes an undertone of humor which would never let you feel enervated. All the actors have done a phenomenal job. The women have been given lots of freedom. The documentary(ies) which Bauji keeps watching frequently, has 100% relevance in the context of the episode and the series. Everyone knows about Pankaj Tripathi's prowess. He doesn't need further introduction (nor do the others), but I would like to mention Guddu (Ali Fazal) as a revolutionary character. The way he has portrayed his passion for body-building, his dumb-wit, his self-assured and self-serving bias; it will blow the viewer away. After watching a few episodes, I had started to wonder if someone can be really so eccentric and so blind due to self-obsession. He just cares about how to live through the current moment in time, nothing else. In my humble opinion, I think that every character is a shade of different level of narcissism. Just visualize, how could a writer conceive the idea of so many narcissistic characters. ;- ) If I ever meet Guddu Bhaiyya (Ali), Munna Bhaiyya (Diyendu Sharma) and Bablu Bhaiyya (Vikrant Massey), it would be extremely difficult to imagine them as a different person than their portrayal.
Sentiment(polarity=0.06207359307359308, subjectivity=0.5697619047619047)
The text is positive

This text is about...

series
Crimes
Thrillers
Actions
genres
series
justices
scripts
niches
spaces
weeks
Sasis
reviews
ss
episodes
tries
numbers
histories
mythologies
words
stories
levels
narrations
points
episodes
gories
undertone

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