

Activity-1 Emoji Based Sentiment Analysis

Total Marks-20

Data set Information

1. 1k_data_emoji_tweets_senti_posneg.xlsx – Data set for Question-A
2. 15_emoticon_data.xlsx – This data set is just for your reference only

Question & Other Relevant Information

- A. Use 1k_data_emoji_tweets_senti_posneg.xlsx file to find sentiment Analysis using any Machine Learning Algorithm of your choice. This file contains sentiment text as well as UTF-8 code for emojis. Refer the following site to have more ideas about UTF-8. **(10 marks)**

<https://www.utf8-chartable.de/unicode-utf8-table.pl?start=127808&utf8=char>

- B. Further, you can **build a real-time tweet sentiment Analyzer. (10 Marks)**

Some ideas for this part: First make a definition with a simple sentence as a parameter: ' 🍷 I love sentiment analysis 😊 '. Now this sentence will use the classifier you have developed in Question-A, to identify the polarity.

Further, develop a text box to take real time tweets, I,e sentences with emojis provided by user using key board to analyze the sentiments of the given sentences.

Note: Do not use Vader sentiment Analysis

Hint: Use ipywidgets library to add textbox and buttons. The final output is something like the one as follows:

I love sentiment analysis but it is too hard to study 😞

Say your Sentiments!

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Your input is " I love sentiment analysis but it is too hard to study 😞 "

YOUR INPUT IS OF "NEGATIVE" SENTIMENT

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Now in the text bar you can type any sentence, then click on "say your sentiment" button to see the sentiment of that sentence

No matter, if you are using a different design as long as your text box takes tweets from user and show the polarity of the sentence, in real time

Important:

- Do not forget to run the program to show the output
- Question-A and B should be answered in the same file
- Please don't attach Submission Text
- Write your name in the Jupyter Notebook

Submission Requirements:

1. Used Dats sets
2. Submit ipynb file. The name of the file should be your LastName. **Act1_LastName.ipynb**
3. Submit pdf version of the python program. The name of the file should be your LastName **Act1_LastName.pdf**