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public-sentiment-analysis-based-on-twitter-hashtags

OVERVIEW:

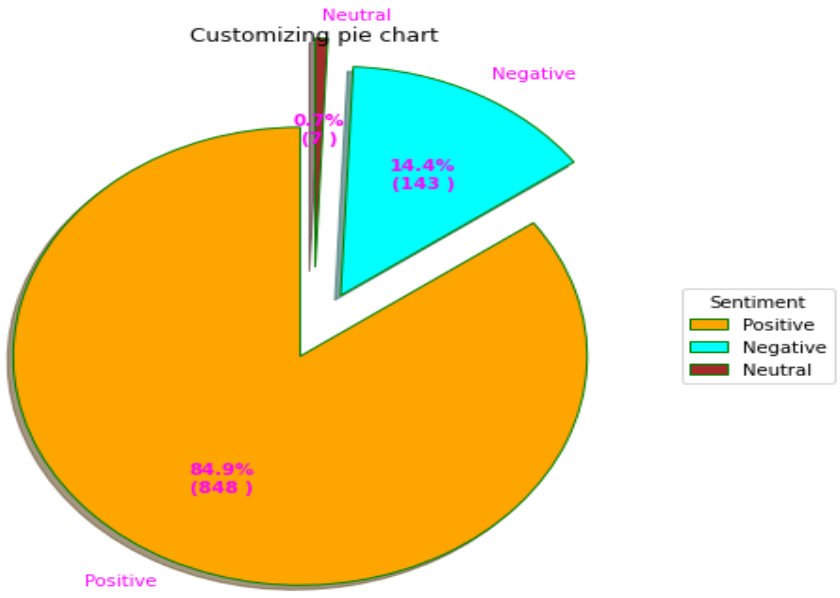
In this project, we try to implement a Twitter sentiment analysis model that helps to overcome the challenges of identifying the sentiments of the tweets determining whether a piece of writing is positive, negative or neutral. based on analysis of tweets we can make plots and make an observation from it.

GOALS: Use Natural Language Processing(NLP) to make sense of human language, and machine learning to automatically deliver accurate results.

LIBRARIES: Numpy, Pandas, TextBlob, NLTK, Sklearn, Matplotlib, WordCloud

PLOTS:

Pie Chart



DISCUSSIONS:

- What kind of tweets has the lowest proportional distribution in above plot?
    - Neutral
- What kind of tweets are most tweeted by user?
    - Positive

- After observing the plots can you try to understand the reasons why the plot are coming like this? you can refer to research papers and articles for making the reasoning part.
    - The plots are looking like this because of TextBlob lexicon,which definitely predicts several neutral and negative articles as positive(highest in this graph).
    - Textblob will ignore the words that it doesn't know, it will consider words and phrases that it can assign polarity to and averages to get the final score.
    - Based on the **polarity,subjectivity and intensity**,TextBlob determine whether it is a positive text or negative or neutral. For TextBlog, if the polarity is >0, it is considered positive, <0 -is considered negative and ==0 is considered neutral.

REFERENCES:

- https://github.com/I-am-sayantan/public-sentiment-analysis-based-on-twitter-hashtags
- https://monkeylearn.com/blog/sentiment-analysis-of-twitter/
- https://www.analyticsvidhya.com/blog/2021/06/twitter-sentiment-analysis-a-nlp-use-case-for-beginners/
- https://www.geeksforgeeks.org/twitter-sentiment-analysis-using-python/