Artificial Intelligence

Project 2

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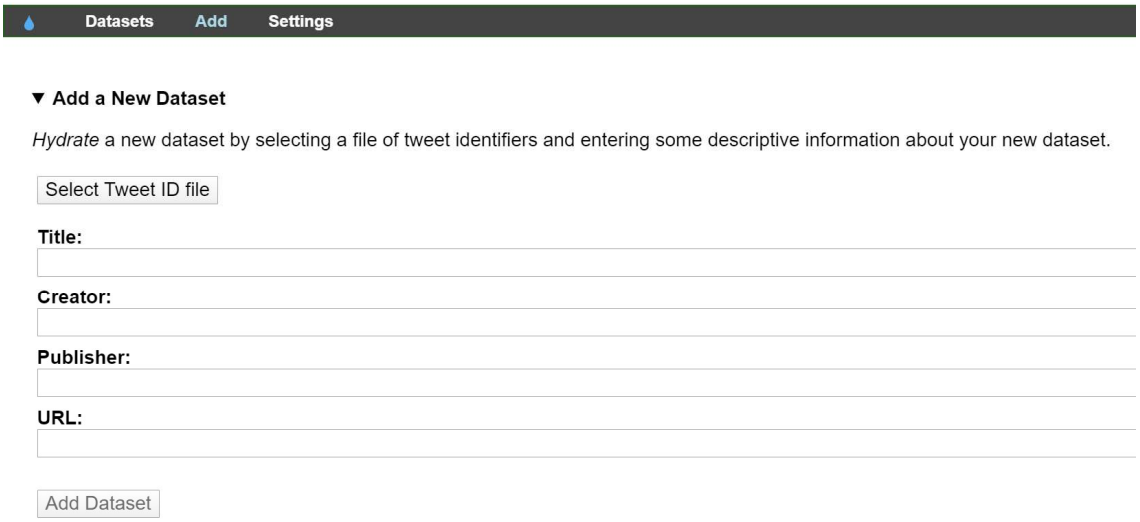
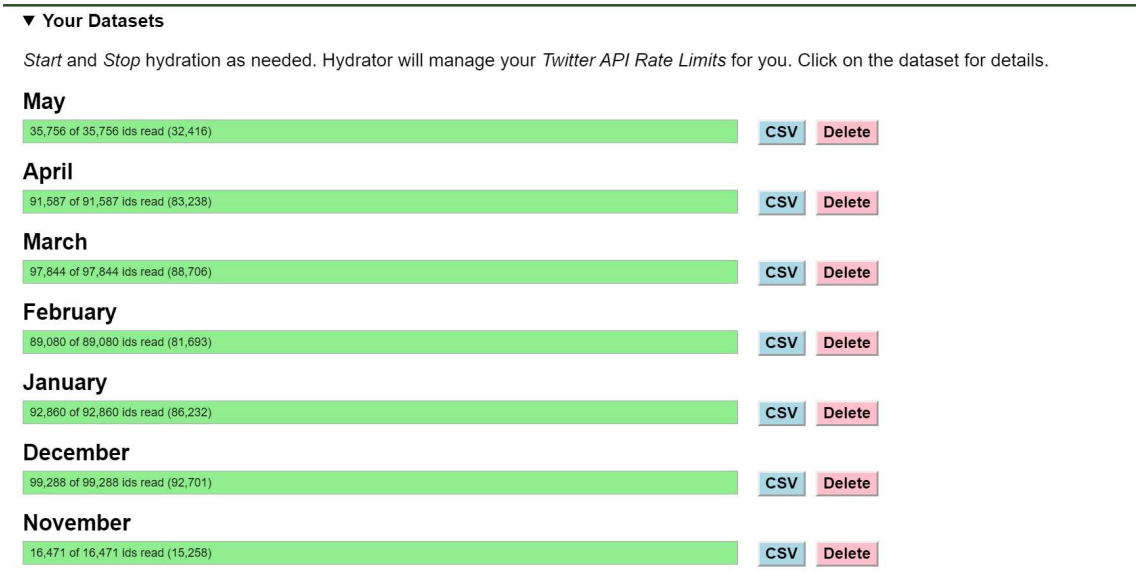
Sentimental Analysis on Omicron virus – covid 19 tweets

1. Hydrating the tweets using Hydrator app

Add the tweets text file provided in the assignment





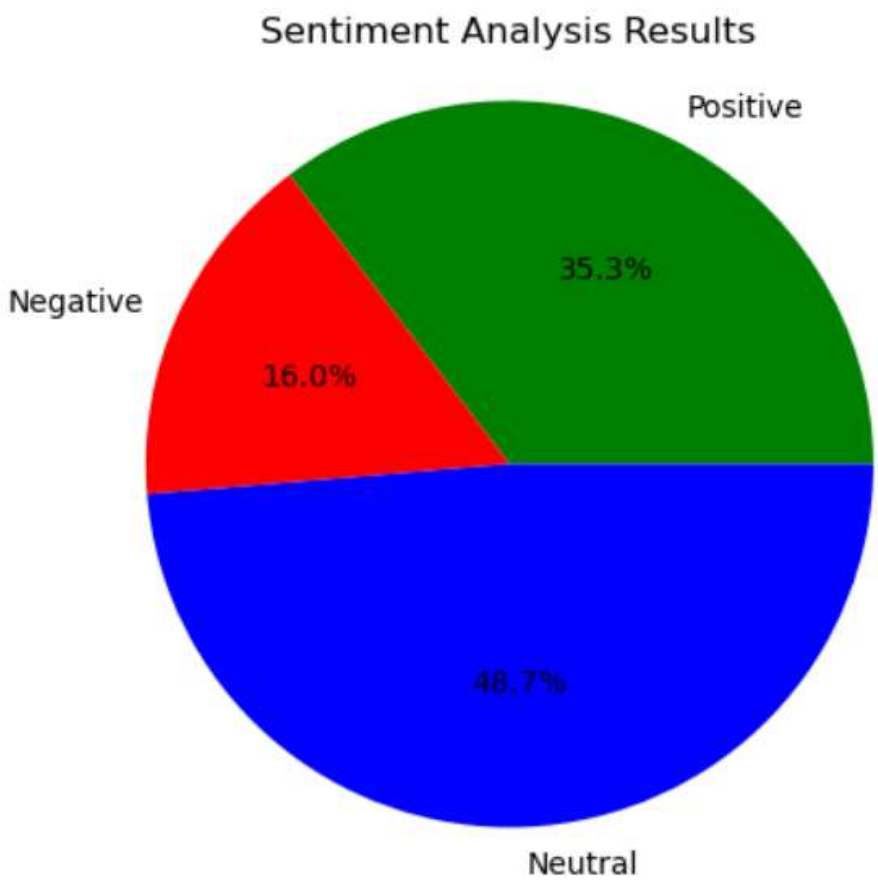
Downloaded the csv files to the local directory.

2. Python code explanation.

This Python code combines multiple CSV files into a single CSV file using Pandas.

It performs sentiment analysis on a set of tweets. It first defines a function clean_text to clean the text by removing URLs, mentions, hashtags, emojis, punctuation, and stopwords, and lemmatizing words. This function is then applied to the "text" column of a pandas DataFrame called tweets_df, and the resulting cleaned text is stored in a new column called "text_processed".

Next, the code counts the number of positive, negative, and neutral tweets in the tweets_text DataFrame, and creates a pie chart to visualize the results. The pie chart is displayed using the matplotlib.pyplot library. The chart shows the proportion of positive, negative, and neutral tweets, labeled and colored accordingly.


Sentiment Analysis Results
Positive
35.3%
Negative
16.0%
48.7%
Neutral