INTRODUCTION

The project "Wrangle and Analyze Data" involves wrangling of data from various sources associated with tweets from the Twitter user @dog_rates, also known as WeRateDogs.WeRateDogs rate's pictures of people's dogs in a humorous manner, most often giving ratings higher than 10/10. After scraping the data, quality and tidiness issues were assessed and then cleaned.

The wrangling process performed in this dataset are:

- Gathering
- Accessing and
- Cleaning

GATHERING DATA

WeRateDogs data was gathered from 3 different sources:

- 1)The enhanced twitter archive file was provided and downloaded manually. This file includes various variables for each tweet including tweet id, timestamp, text, rating numerator and denominator, name, etc.
- 2)The tweet Image prediction file which was provided for Udacity Students.
- 3)For some weird reasons, I was unable to get the Twitter API keys so I downloaded the 'tweet_json.txt' file which was provided by Udacity for those that were unable to set up a Twitter developer account.

ACCESSING DATA

After gathering the data, I was able to access the data visually and programmatically with some python function like;

- .head(): This was used to access the first five records of each data.
- .info(): This was used to access the information of rows and columns of each data e.g number of rows, number of columns, and data type of each column.
- .sample(): This was used to access random records of each data.
- .value counts(): This was used to count the values in each column.
- .duplicated(): This was used to check for duplicates.
- .isnull(): This was used to check for null values.

During Data Assessment, I found out that the data has some quality issues and tidiness issues like: missing values, duplicate rows,invalid data e.t.c.

CLEANING DATA

I was able to clean the tidiness and quality issues using some functions

- Deleting retweets using '.drop function'
- Removing columns that were not needed using ".drop()' function.
- Change timestamp to correct date format using pd.to_datetime() function.
- Separating timestamp into day, month, year columns using datetime.
- Create one column for the different dog stages using pd.melt() function.
- Merge the clean version of twitter archive, image prediction and tweet file together using pd. Merge function.
- Correct naming Issues using '.replace()' function.



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