Report on

Wrangle and Analyze Data Project for FWD By Amr Menshawy

Introduction

This project to analyze tweeter account @dog rates also known as WeRateDogs is a Twitter account that rates people's dogs with a humorous comment about the dog. These ratings almost always have a denominator of 10. also part of the project to provide some insides,

A lot of process required like (Data Gathering, Data Assessing, Data Clean) will be covered in this project last stages are sort and export the data also visualize this data to show this insides.

Data Gathering

Part from this project as we spoke are data garthering from different sources almost these data was provided on the Udacity classroom like (twitter_archive_enhanced, image_predictions, tweet_json) the type of the source (csv,tsv,and json), we will deep inside these sources to merge it to one file and start our data assessment.

Data Assessment

After we finished the data gathering and merge the data to one file we need to visual the data by excel also Coding by using pandas some useful library tail(), head(), value_counts(), dtypes(),nunique() we found a lot of issues and tidiness which will you start clean it in the next part

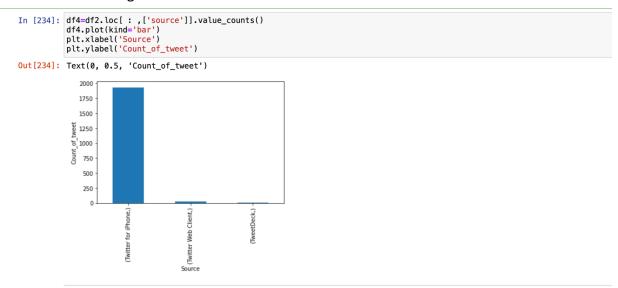
Data Clean

After we made our assessment we found data quality issue and the tidiness we will use the pandas and numpy libraries to fix these issue and clean the data also testing the data to make sure that data is clean and ready to be used for sort, export and store.

- 1. Change timesatmp columns
- 2. Clean source columns
- 3. Dog stage
- 4. Drop retweets
- 5. favorite count & retweet count change to int
- 6. Remove unneeded columns
- 7. Rename columns
- 8. Fix rating
- 9. tweet id: is int, should be type object as no calculation is needed
- 10. correct missing names
- 11. Merging the three dataframes, using the common tweet id
- 12. The puppo/doggo/floofer/pupper terms should be in one column

Sort and Visualization
After we cleaned our data its time to visualize the data and see what inside we can get

1-from below chart you can get that almost the users tweeting from different sources but the most are using iPhone



2-from below chart you can get that almost the users in 2016 was tweeting more than 2015 and 2017

