act_report

September 16, 2020

0.1 Wrangling and analyzing WeRateDogs data

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. The numerators, though? Almost always greater than 10. 11/10, 12/10, 13/10, etc. Why? Because "they're good dogs Brent." WeRateDogs has over 4 million followers and has received international media coverage.

WeRateDogs is already a popular account, the median number of favourites and retweets for each tweet is about 4000 and 1500, respectively. But popularity is relative and as our high school experience and American celebrity culture confirm, popularity is a long tail state.

0.1.1 Extracting data

The data was provided in one csv and one tsv file along with which required scrapping data from twitter using tweepy.

0.1.2 Analysis

This step involved exploring, getting familiar with the data and finding all Quality and Tidiness issues.

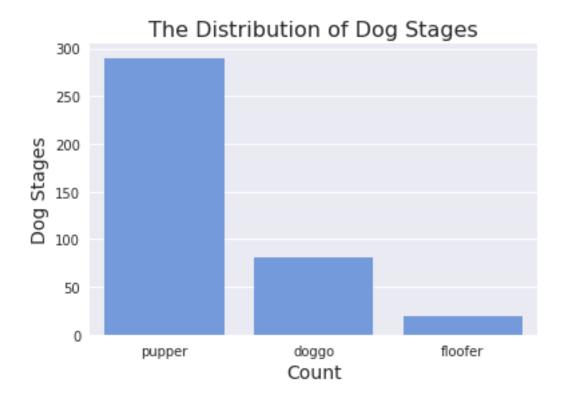
0.1.3 Cleaning

Cleaning the data to remove all Quality and Tidiness issues found in analysis phase.

0.1.4 Visualizations

Communicating findings through visuals for better understanding and pattern displaying.

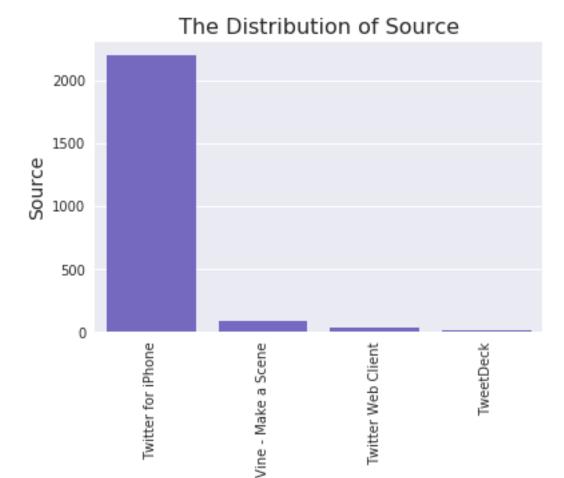
```
In [1]: import pandas as pd
    import numpy as np
    import tweepy
    import matplotlib.pyplot as plt
    import seaborn as sb
    import requests
    import datetime
    import json
    import os
    from IPython.display import Image
```



Most of the data has a pupper type of dog_category.

```
plt.ylabel('Source', fontsize=14)
    plt.title('The Distribution of Source',fontsize=16);

Twitter for iPhone 2197
Vine - Make a Scene 91
Twitter Web Client 33
TweetDeck 10
Name: source, dtype: int64
```



Source for most of the data on twitter is from Twitter for iPhone, and least from TweetDeck

Count

```
In [8]: image_predictions_clean['first_prediction'].value_counts().head(10)
```

Out[8]: g	golden retriever	150
I	Labrador retriever	100
I	Pembroke	89
(Chihuahua	83

```
      pug
      57

      chow
      44

      Samoyed
      43

      toy poodle
      39

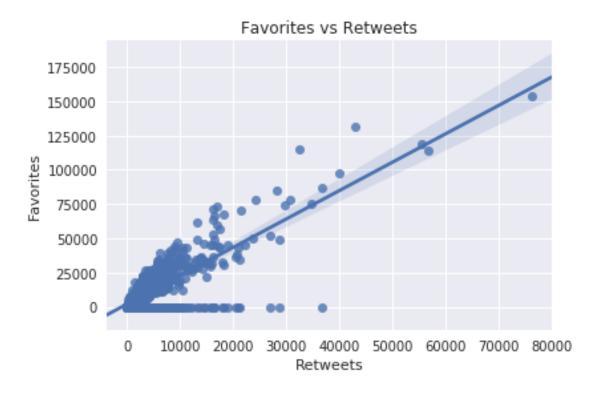
      Pomeranian
      38

      malamute
      30
```

Name: first_prediction, dtype: int64

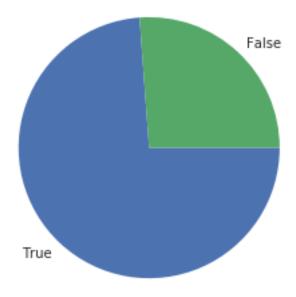
- The prediction for golden retrievers is the most accurate of other
- Prediction for Chihuahuas looks to be least accurate. The least predictions are recorded for Malamutes and most for Golden Retrievers

Conclusion, this model works in favor of the Golden Retrievers in this dataset



Observations:

I tested out the correlation between 'retweets' and 'favorites' and it is clear that it is a positive correlation between them, according to pearson's definition.



In []: The Prediction model's accuracy for dog in first predictions is near to 3/4 or can be sa