Data Analysis of WeRateDogs twitter Account

Data analysis on the twitter account WeRateDogs was performed on their original tweets that contain an image and were tweeted before 2 Aug. 2017

Data was gathered from 3 different sources and combined and cleaned

- 1. WeRateDogs tweet archive in a .CSV file This file contained the following attributes
- 2. Neural Network Dog breed predictions for the tweets in a .tsv file
- 3. Tweet details gathere through twitter API by tweet ID

After gathering the data visual and programmatic assessment were performed. The assessment resulted in 8 data quality issues and 4 data tidiness issues

The 8 data quality issues were

- Some tweets are retweets and not originals ('retweeted_status' == True and/or there's a value for in_reply_to_status_id, in_reply_to_user_id, retweeted_status_id, retweeted_status_user_id, retweeted_status_timestamp
- 2. Some tweets are replies (reply status == True)
- 3. Some tweets do not have images or do not exist anymore (values in "fails_dict")
- 4. Some image prediciton doesn't have any dog breed in the result (p1_dog & p2_dog & p3_dog are all False)
- 5. Some tweets do not have the correct dog rating ta df.guery('rating denominator != 10')
- Some tweets have vine videos instead of photos (td_df['tweet_source'] == "Vine Make a Scene")
- 7. Only a small fraction of tweets contain dog stage (less than 400 tweets) so this data is incomplete
- 8. Some entries have a wrong dog name (all entries under name starting with a small letter are wrong, other entries starting with capital letters are mostly correct)

The 4 data tidiness issues were

- 1. Some columns have the wrong data type
- 2. Tables are separated
- 3. Some columns are redundant
- 4. Some columns are not well named

After cleaning the data the results was saved in a csv file for easy access in the future.

Basic analysis of the data was performed

The findings of the analysis are as follow

- The most common dog name in the tweets we have is Cooper with 10 occurences
- The most tweeted tweet for WeRateDogs is https://t.co/DkBYaCAg2d it was retweeted 54647 times it rates Stephan with 13/10
- The most favorited tweet for WeRateDogs is https://t.co/DkBYaCAg2d it was favorited 116922 times it rates Stephan with Stephan/10
- The most retweeted tweet is the most favorited tweet

The relationship between Rating and retweet counts s as follows

