

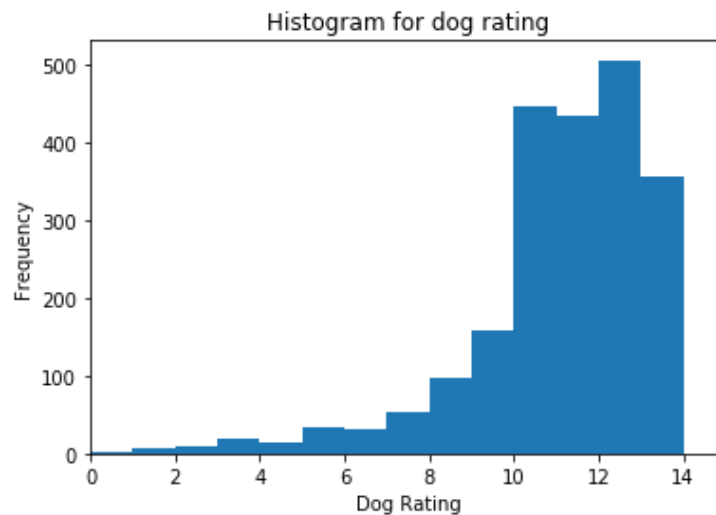
## Udacity: WeRateDogs Project Analysis

### Introduction

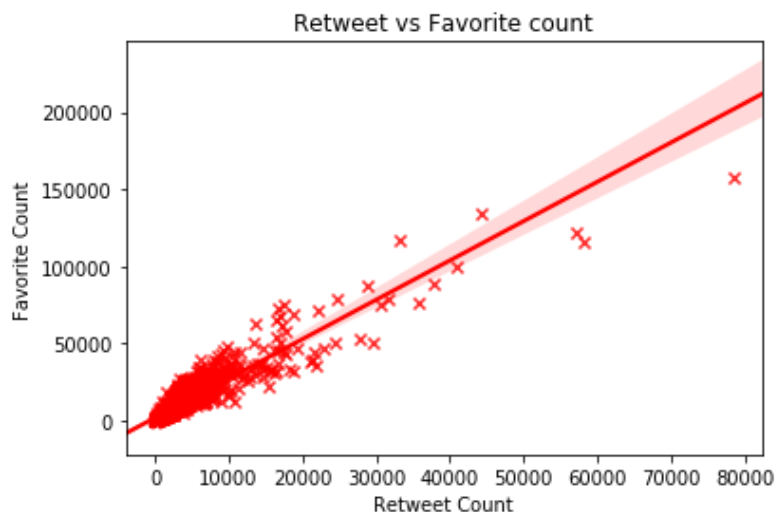
WeRateDogs is a twitter handle that rates dogs pictures that people post on twitter. In this project data has been gathered from tsv and csv files and through twitter APIs to analyze the tweets made by this handle. There were a total of 2356 tweets that have been analyzed after cleaning them.

### Analysis

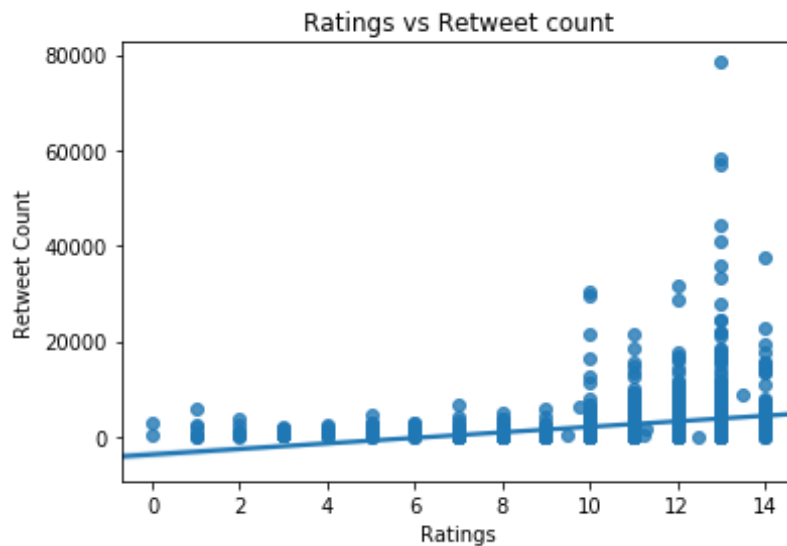
WeRateDogs has a unique rating scheme where on a scale of 10 they rate dogs even above 10. It was found that 80% of the rated dogs had a score of 10 or above. Most of the low rated tweets were associated with non-dog animals (like cats and snails).



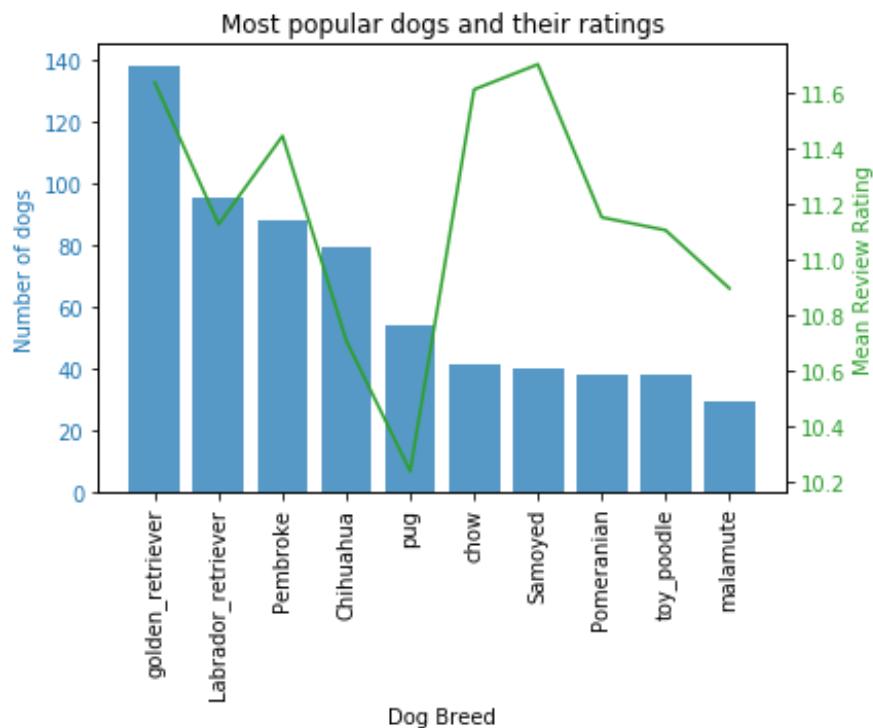
There was a strong correlation between people favoriting the tweets and retweeting them (with a correlation coefficient of 0.93). This implies that most of the people who liked the tweet also might have shared it.



There was however no significant correlation between the rating of a dog and the number of retweets that it got. There was only a minor positive trend (with a correlation coefficient of 0.28) between higher ratings and retweets.

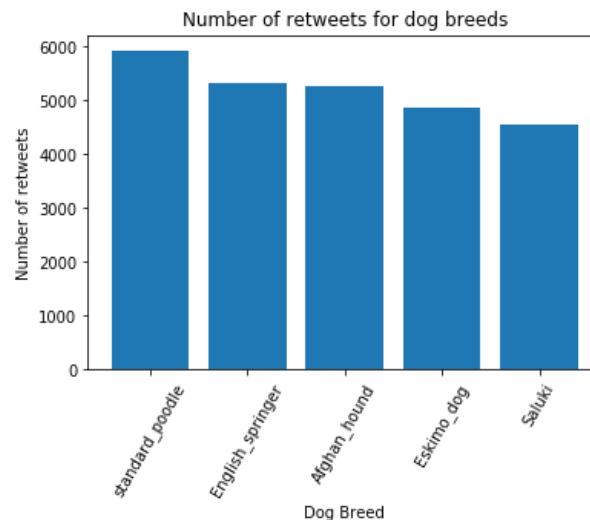


There was an additional neural network that was trained to identify the breeds of the dog based on its picture. Based on this it was identified that the most common breed of dog that people posted were golden retriever and Labrador retriever. Below graph shows the breed of dogs which had most pictures posted and their corresponding ratings.

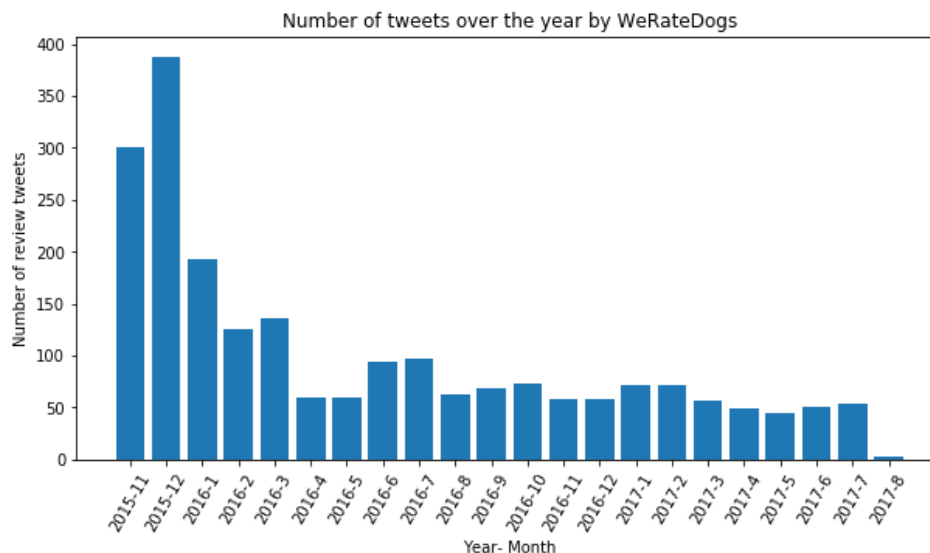


The overall average ratings for the dogs were 10.6/ 10. However, the pugs which are pretty popular dog breed had a rating of 10.2 which is even less than the average. However, Saluki and briard were the highest rated dogs on an average with a rating of around 12.5.

It was also found that on an average standard poodle and English Springer were the most retweeted dog breeds with around 5900 and 5300 retweets each. It is much higher than the average retweet of 2470 that dogs get.



There also seems to be decreasing trend of tweets from the WeRateDogs twitter handle. In 2015 it would be rating approximately 300+ dogs per month but by 2017 it was down to around 50 ratings per month.



## Conclusion

WeRateDogs has a highly rated twitter handle with approximately 2400 retweets for each of its tweets. It is probably due to its humorous tweets and unique rating scheme.