WHAT WE CAN LEARN FROM

WERATEDOGS

Introduction

Are you a dog-lover? Have you heard about WeRateDogs? Probably not. But have you heard of Twitter? Ofcourse you have! WeRateDogs is a Twitter account with over 6 million followers. This account is for dog lovers to rate dogs and give hilarious comments about them. Most people rate dogs, infact anything, on a scale of 10 with the rating actually less than 10. However, WeRateDogs disagree and believe that most dogs deserve ratings of over 10, but on 10!
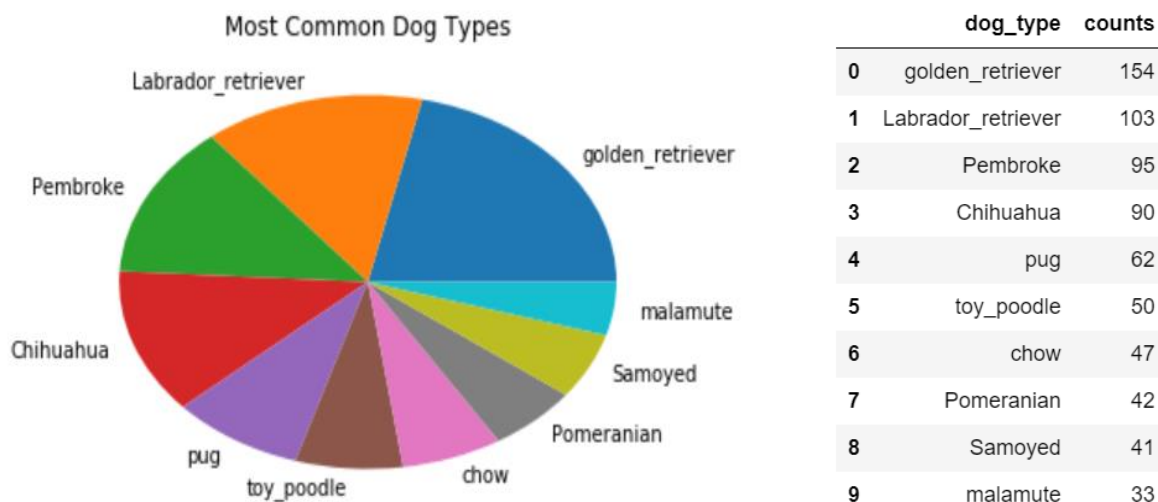
This account has also received international media coverage for shutting down a person who had issues with their rating system, in a humorous way ofcourse. But if you are a cat-person, you might want to stay away! These guys are real damn serious about their love for dogs!

So after having analyzed their twitter data, I have gathered some interesting insights on the following questions:

- ❖ *What are the 10 most common dog types?*
- ❖ *What dog types are the highest rated and lowest rated?*
- ❖ *Tweets of what dog types get retweeted and favorited the most?*
- ❖ *Is there a relationship between favorites and retweets?*
- ❖ *Is there a relationship between average rating and number of retweets?*
- ❖ *Is there a relationship between average rating and number of ratings received?*
- ❖ *What is the pattern of retweets and favorites over time?*
- ❖ *Is there a relationship between dog type and confidence level of prediction on an average? Which dog type predictions have a confidence level above 0.5 on an average?*

Most common dog types:

These dogs were found to be the ten most common dog types with Golden Retriever leading at the first place with a count of 154, followed by Labrador Retriever and Pembroke at second and third with a count of 103 and 95.

	dog_type	counts
0	golden_retriever	154
1	Labrador_retriever	103
2	Pembroke	95
3	Chihuahua	90
4	pug	62
5	toy_poodle	50
6	chow	47
7	Pomeranian	42
8	Samoyed	41
9	malamute	33

These dogs are pretty damn cute, aren't they? Not quite surprised why they are tweeted so often!

Highest & Lowest Rated dogs:

From a total of 112 different dog types, Bouvier des Flanders received the highest rating on average. Well, all that fluffiness explains why!
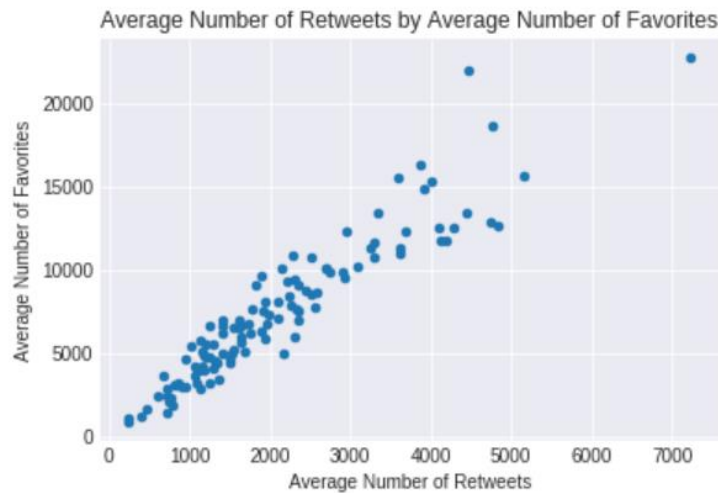
Japanese Spaniel received the lowest rating but honestly, I don't know why, these guys here seem to capture my heart pretty fast!
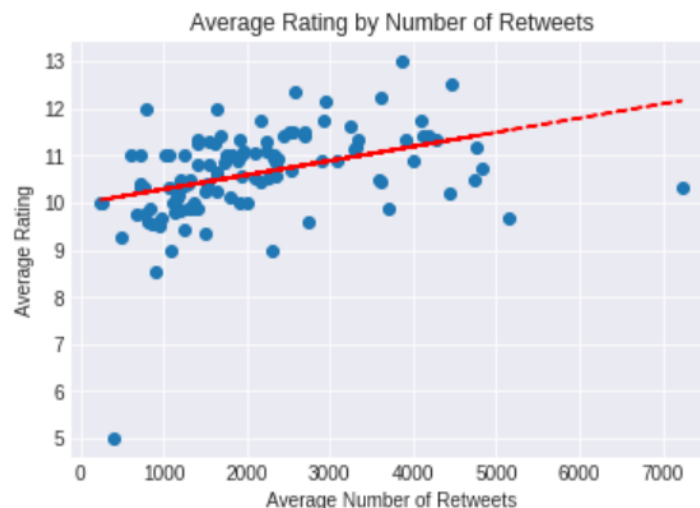

Retweets, Favorites and Ratings:

Clearly, from the below image we understand that the retweets increase with increase in favorites. Not surprising at all! More people like it, more people re-tweet it!
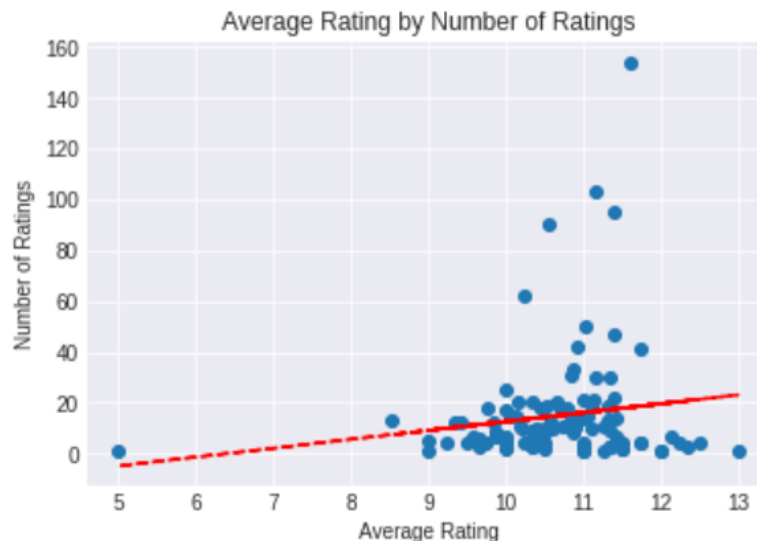

Another somewhat linear relationship can be observed between the number or retweets and average rating for each dog type. It does make sense doesn't it? A higher average rating means more people like this dog, leading to more re-tweets!
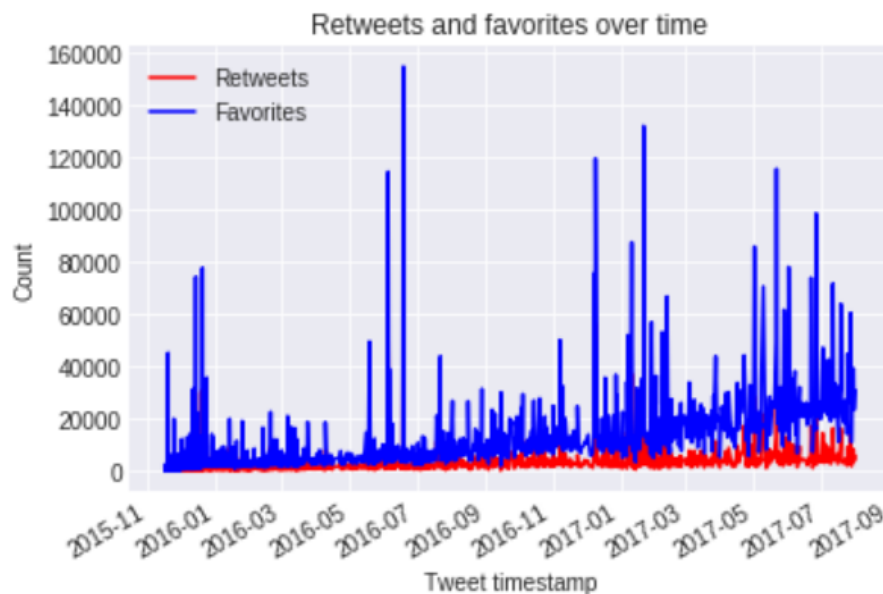
Does the average rating a dog receives get affected by the number of ratings it receives? Interesting question isn't it? Well sadly, no strong correlation is found between the two, however a slight linear relationship can be observed. Most dogs with a high number of ratings have received an average rating between 11-12 on 10, which is still pretty high if you ask me!

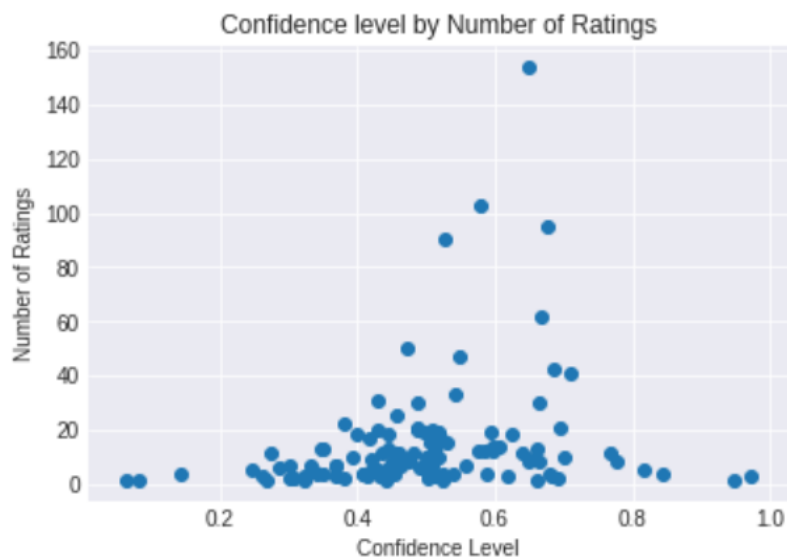Average Rating by Number of Ratings

Retweets and Favorites over Time:

Since 2015, as per the data provided, we can see that more people have started favoriting and retweeting tweets of WeRateDogs. This increase could just be implicated by more Twitter users over time which also increases followers for the page obviously. I honestly feel good to know, these dogs get more famous with each passing year!

Retweets and favorites over time

Confidence of Prediction:

Now this did surprise me quite a bit. I did assume that if a dog received more ratings, i.e, is a more common dog in the dataset, that would give more data for the model to make more confident predictions. I analyzed this expecting a strong linear relationship but surprisingly I did not receive that. All I got was most predictions were made with 30-70% confidence. Even the most common dogs were not predicted with a very high confidence level. And majority of dogs were predicted only with a confidence level of less than 70%.

Confidence level by Number of Ratings

Dog Stage:

I honestly don't know what they mean by these dog stages but whatever they are clearly most of the dogs we have studied here fall under the pupper category. Certain dogs fall under multiple categories.

Count of Dogs by Dog Stage