

Act Report

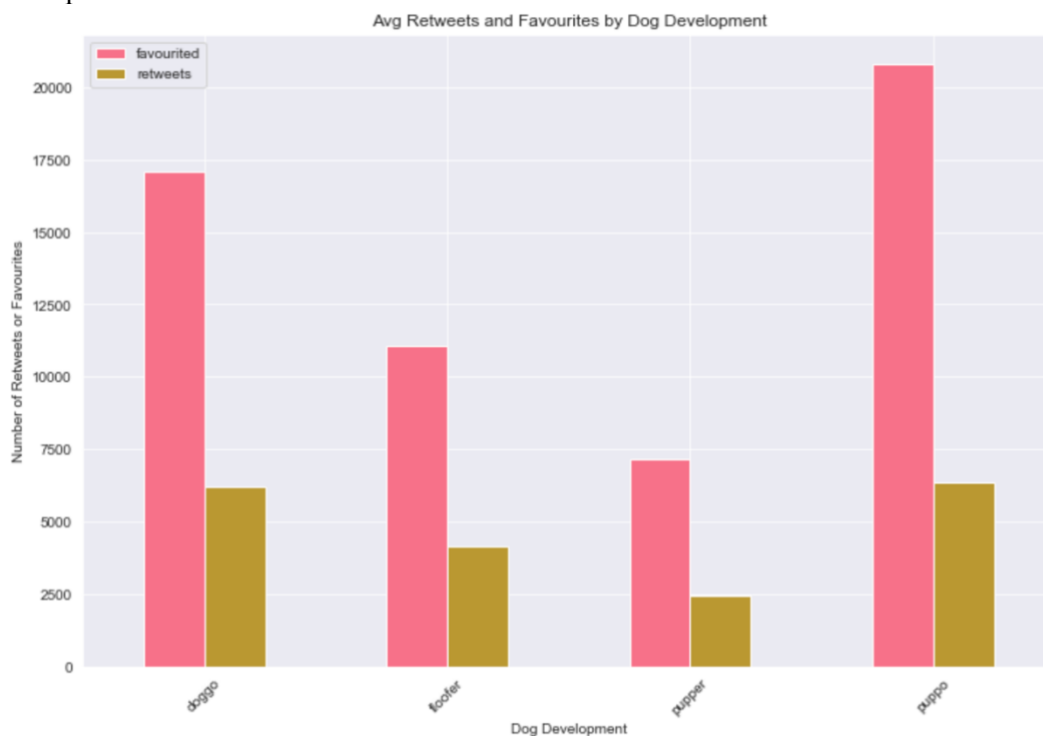
Intro

For the visual analysis I used scatter plots and bar plots to create meaningful ways to create take-aways from the data.

Dog Development

Retweeted or Favourited

The first comparison I made was to compare the number of average number of retweets and favourites that the different dog development stages received from the twitter posts. The following chart and data depicts the results:



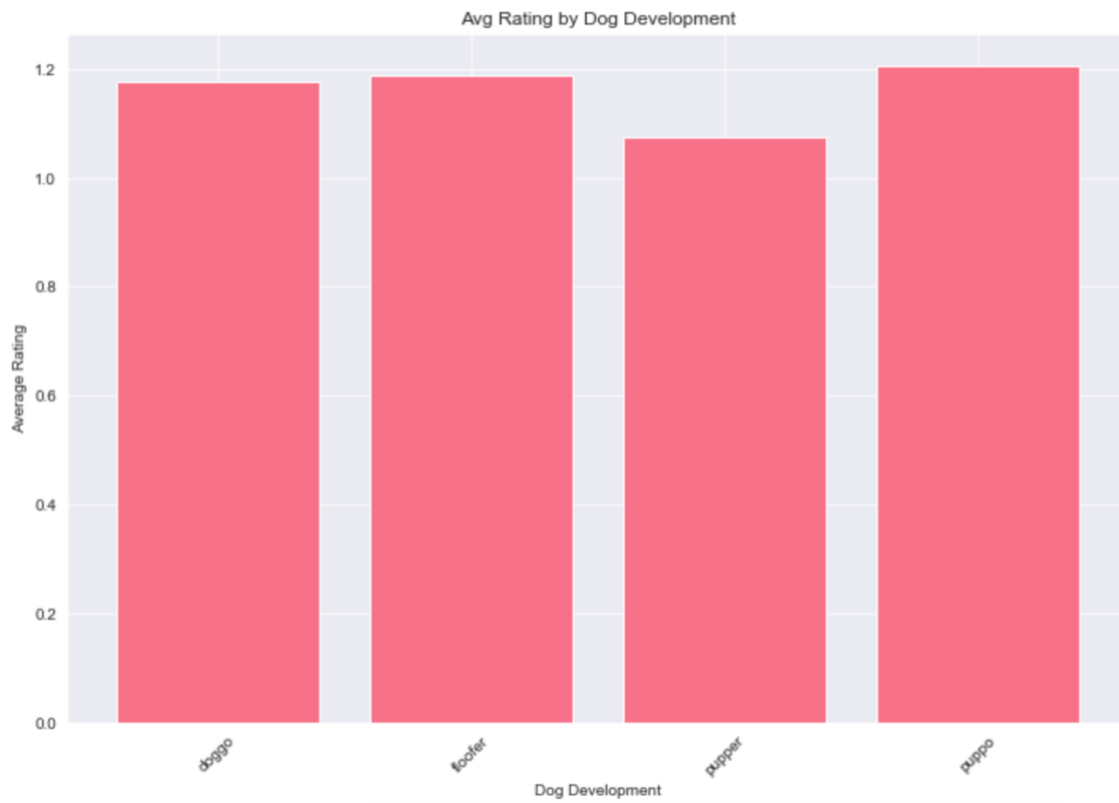
| | favourited | retweeted |
|---------|--------------|-------------|
| dog_dev | | |
| doggo | 17108.804598 | 6189.655172 |
| floofer | 11064.444444 | 4155.888889 |
| pupper | 7176.267857 | 2457.723214 |
| puppo | 20788.875000 | 6332.500000 |

It is clear that in both categories, the puppo stage is the clear winner, with doggo following, floofer in second place, and last pupper in both favourited and retweeted averages.

Rating

After the initial analysis between the dog development stages, favourited, and retweeted tweets, I had to do a comparison between rating and the same development stages for the dogs.

These are the results:



| | dog_dev | rating |
|---|---------|----------|
| 0 | doggo | 1.177011 |
| 1 | floofer | 1.188889 |
| 2 | pupper | 1.073661 |
| 3 | puppo | 1.204167 |

Much like the first results that we saw, the puppo stage is the winner in terms of the highest average rating. However, floofer is slightly better than doggo in terms of rating, while pupper got the lowest average rating out of the four stages. This begs the question whether there is any type of influence might be imposed on the number favoured and retweeted tweets, by how high rating a dog receives.

Dog Breed

Most popular kind according to the prediction algorithm

When looking at the most featured dog breed in the tweets, we used the prediction algorithms highest confidence intervals to figure out the breed of the dog. Then any dog that had a count of 13 or more (top 75 percentile,) we ordered the counts in horizontal bar chart, to see which dog could be seen most in the tweeted pictures:

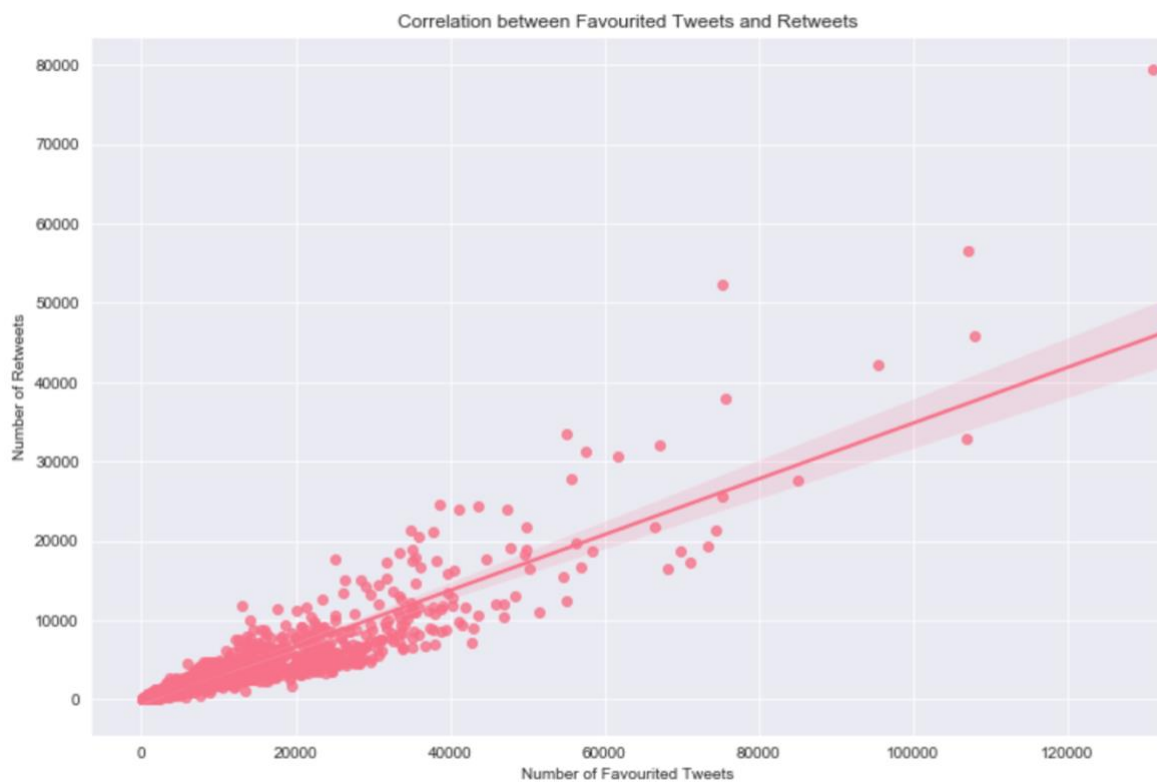


In the chart above, it is clear results and here are the top five most featured dogs are in descending order:

1. Golden Retriever
2. Pembroke
3. Labrador Retriever
4. Chihuahua
5. Pug

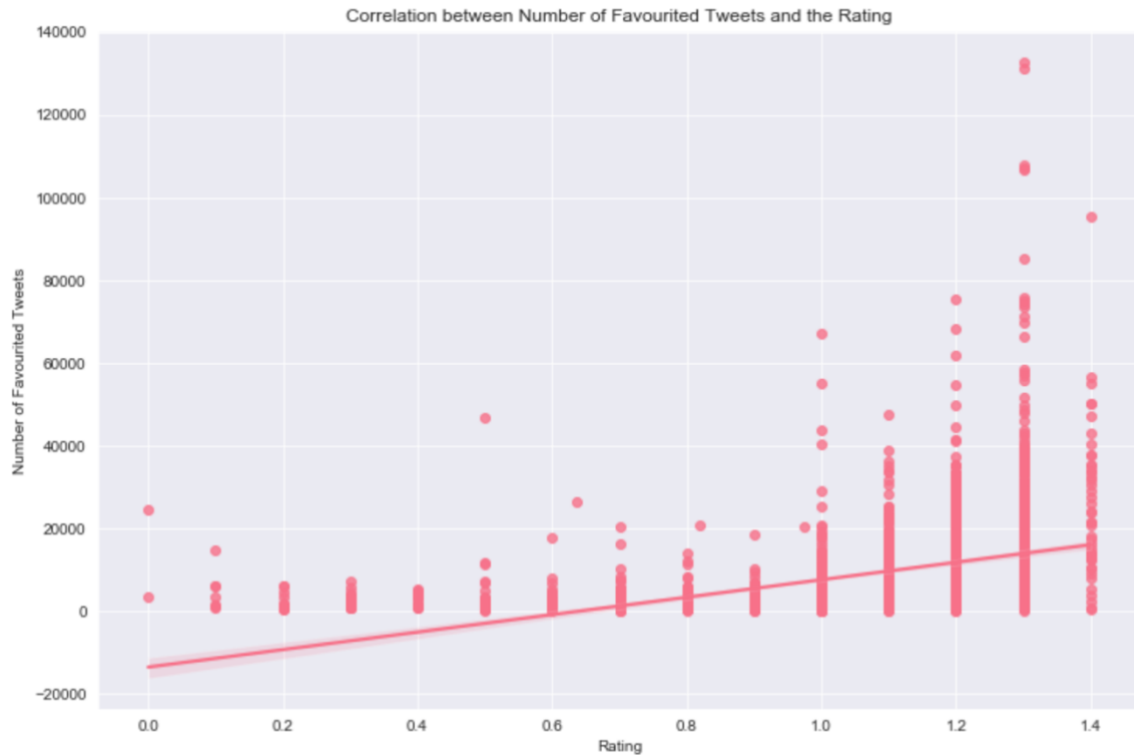
Correlational Relationships

Favourited vs Retweeted



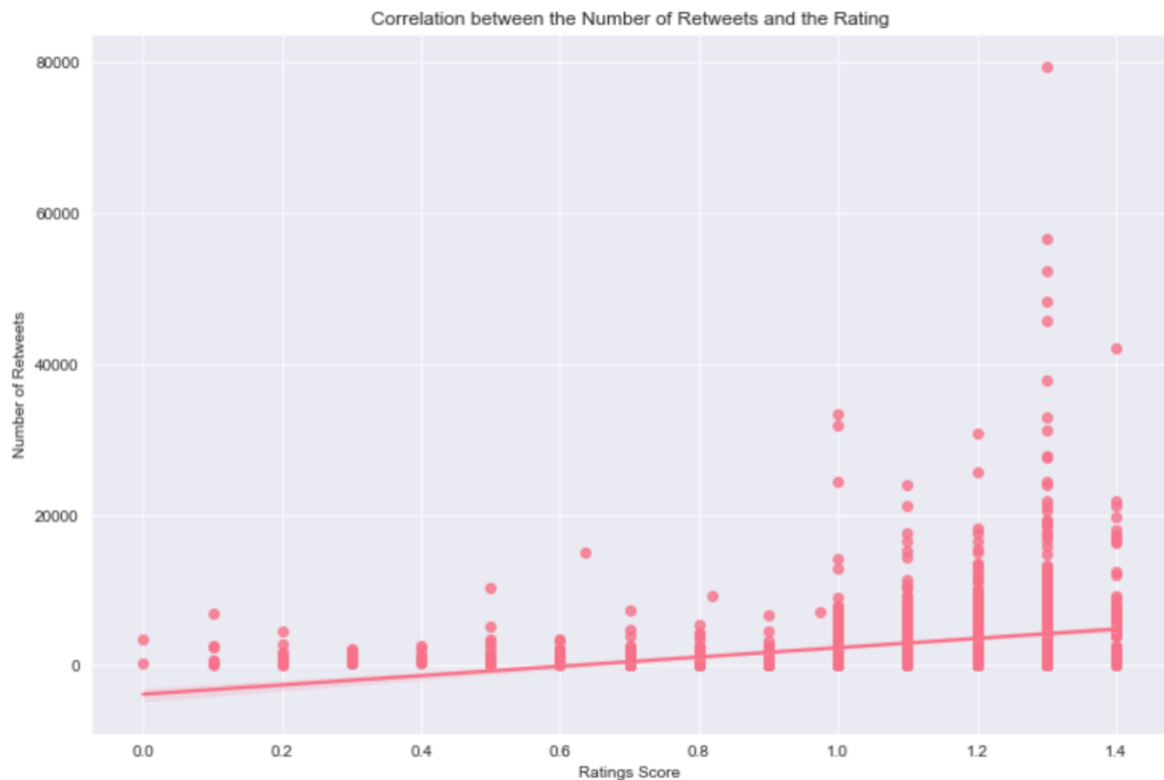
In the chart pictured above, there is a clear correlational relationship between the retweeted- and favourited tweets, when number of favourited tweets increase, so does the number of retweeted tweets.

Favourited vs Rating



In the chart, comparing the rating and number of retweets, as the rating increases, so does number of favourited retweets, however, the relationship is not as strongly correlated as retweets vs favourites. Still, the relationship is there.

Retweeted vs Rating



In the final chart, comparing the rating and number of retweets, we can just like the previous chart, see that the number of retweeted tweets increase as the rating increases.

Final Words

From the dataset we have a few interesting takeaways:

1. Puppo was the dog stage with most popularity in terms of favoured & retweeted tweets. I also had the highest rating on average
2. Golden Retrievers were the most popularly featured (and recognised) dog according to the prediction algorithm.
3. Favoured- and Retweeted Tweets has a positively correlated relationship, when a post has been favoured a lot, it is probable that it has also a higher number of retweets.
4. When a tweet has given a higher rating in the tweet (on average,) favourites are probably a bit higher too.
5. Just like favourites, retweets are also likely to have a higher number when the average rating.