

# Act Report

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The dataset that I worked on is the tweet archive of Twitter user @dog\_rates, also known as WeRateDogs. 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 8.7+ million followers and has received international media coverage.



**WeRateDogs®** ✓  
@dog\_rates

This is Benny. He's not great at going down stairs yet, so his human carries him. Yesterday he wiggled out of their arms and fractured his paw. For now he's on meds and limited to his crate. Surgery to repair it is expensive, but you can help below. 13/10

[gofundme.com/f/9wjfqh-help-...](https://gofundme.com/f/9wjfqh-help-...)



10:19 PM · Apr 10, 2020 · [Twitter for iPhone](#)

WeRateDogs is a Twitter account that rates people's dogs with a humorous comment about the dog. The account was started in 2015 by college student Matt Nelson, and has received international media attention both for its popularity and for the attention drawn to social media copyright law when it was suspended by Twitter for breaking these aforementioned laws.

Nelson, a golf management major at Campbell University in Buies Creek, North Carolina, was inspired by Weird Twitter and had amassed a 10,000-person following on his personal Twitter account. In 2015, he and a friend were at an Applebee's, when he set up a Twitter poll from his personal account asking if he should create a dog rating account; the positive response led him to create the account, which combines cute animals with irreverent snark

WeRateDogs asks people to send photos of their dogs, then tweets selected photos rating and a humorous comment. Dogs are rated on a scale of one to ten, but are invariably given ratings in excess of the maximum, such as "13/10". Popular posts are re-posted on Instagram and Facebook. In 2017, Nelson started a spin-off Twitter account, Thoughts of Dog.

The account also has a branded game, a popular online store, and a book that was published in Fall, 2017. Nelson and his team of four receive 800 to 1,000 submissions daily and work to narrow them down to about one high-quality piece of dog content per day.

A standout product from Nelson is the WeRateDogs Calendar, available in standard and desk sizes. Each day of the desk calendar features a different dog and a rating above 10.

In this report I showed how I have analyzed of the clean WeRateDogs data with 1908 observations.

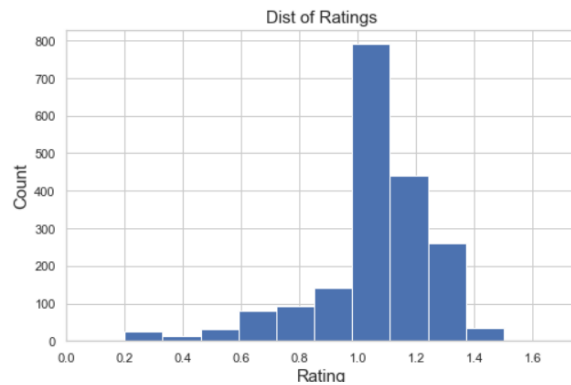
1. Favorite Dog was unnamed but has the most number of likes and also have most retweet count.



2. Highest rating dog was Atticus with rating of 177.600. Dog stage And breed is not known. Atticus weared US flag on indepence day Of America(4th-July) thats why rating is so much above.



- we can see ratings are more frequent between 1 and 1.3. And Mean dog rating is 1.06

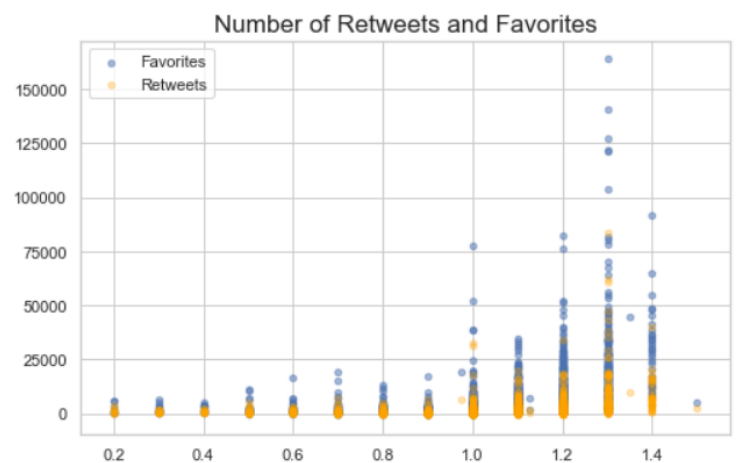
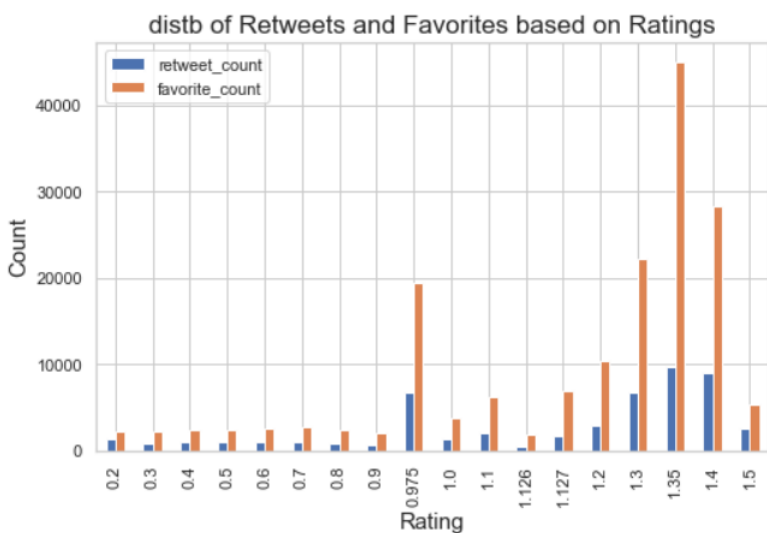


- Descriptive Analysis – gave the idea about analysis.

```
1 # Descriptive analysis
2 data_frame[['retweet_count', 'favorite_count', 'rating', 'confidence']].describe()
```

	retweet_count	favorite_count	rating	confidence
count	1908.000000	1908.000000	1908.000000	1908.000000
mean	2591.144130	8489.412998	1.061204	0.466313
std	4703.502207	12634.236572	0.210510	0.339239
min	12.000000	78.000000	0.200000	0.000000
25%	577.750000	1773.750000	1.000000	0.145375
50%	1245.000000	3777.500000	1.100000	0.457514
75%	2949.500000	10608.250000	1.200000	0.778514
max	83626.000000	164232.000000	1.500000	0.999956

- retweet counts are lower than favorite counts for every rating  
Dogs rating b/w 1.3 & 1.4 are retweeted and liked most.  
As we can see in the following graph.

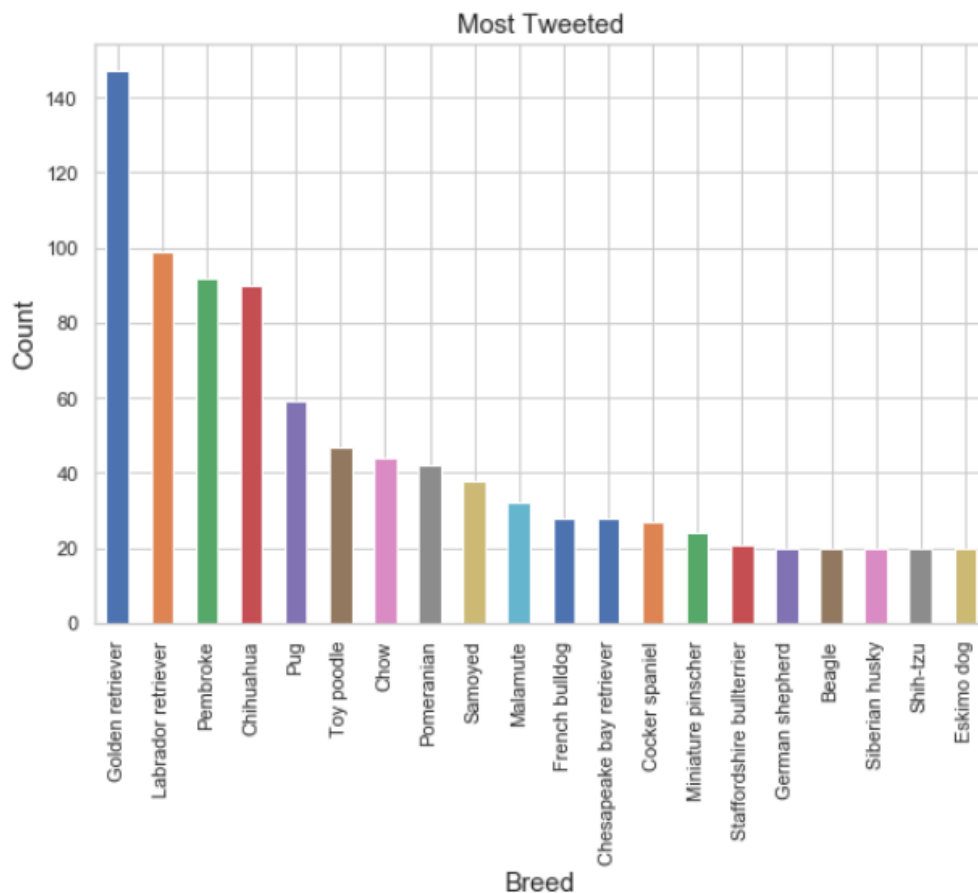


6. Pearson correlation coefficients show that there is +ve correlation b/w retweet counts and favorite counts. But there is no correlation between ratings and retweet counts, as well as ratings and favorite counts. It might be a reason that ratings are given by only one account holder WeRateDogs and they are quite subjective. dog breed which are tweeted greater than 20-times and exclude category 'None'.

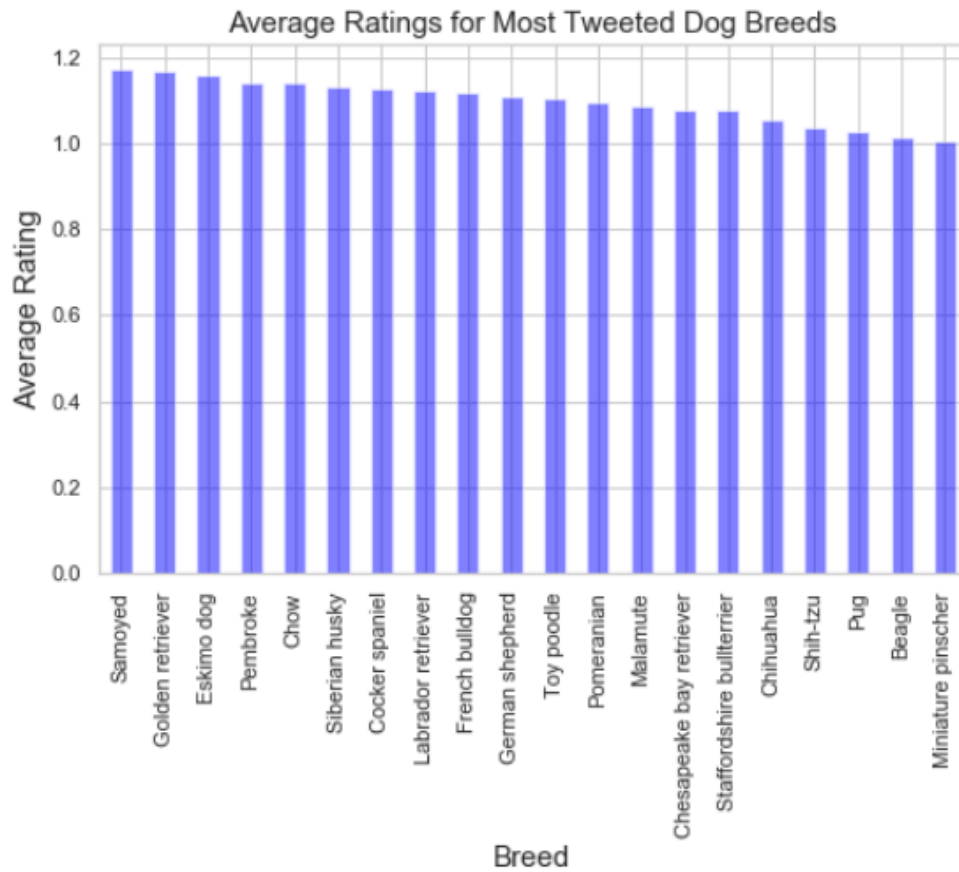
```
1 data_frame[['rating', 'retweet_count', 'favorite_count']].corr(method = 'pearson')
```

	rating	retweet_count	favorite_count
rating	1.000000	0.306295	0.406224
retweet_count	0.306295	1.000000	0.930268
favorite_count	0.406224	0.930268	1.000000

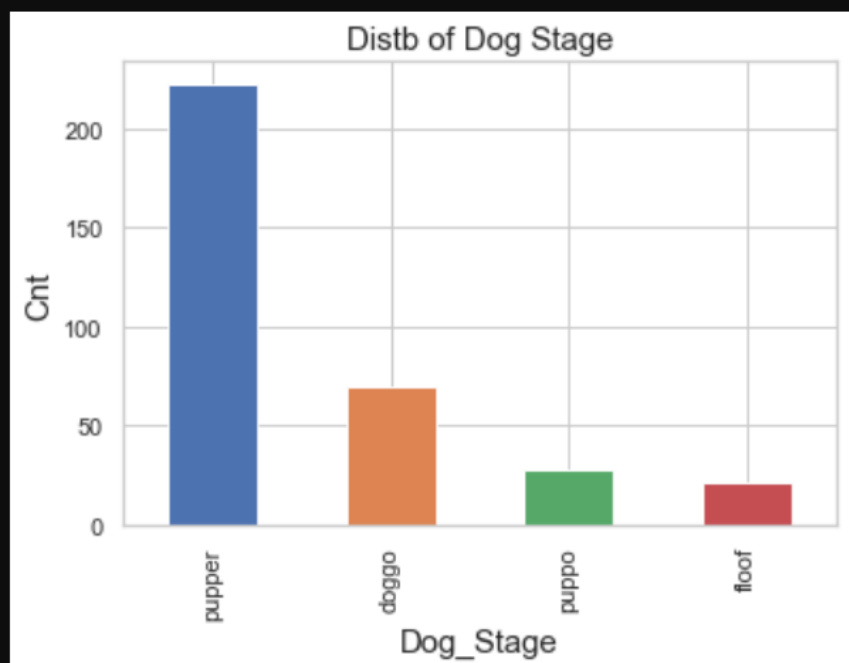
7. Highest tweeted-dog\_breeds in dec order: Golden Retriever, Labrador Retriever, Pembroke, Chihuahua, Pug.



8. Most tweeted dog breeds with the highest rating in dec order --> Samoyed, Golden Retriever, Pembroke, Eskimo Dog, Chow.

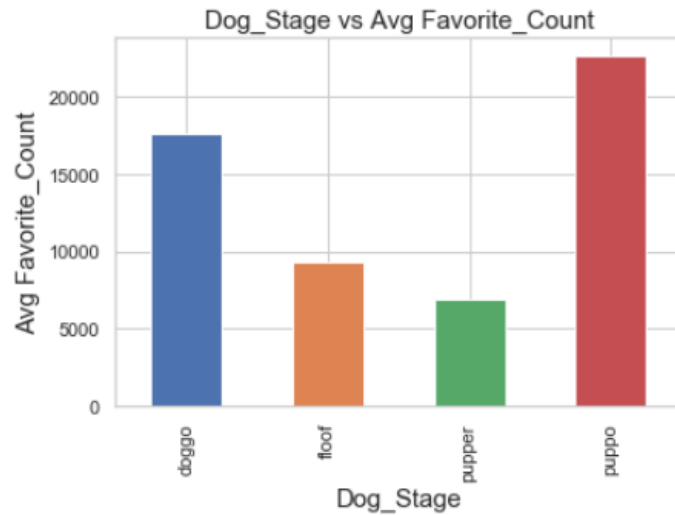


9. After analyzing much and after excluding the unnamed dog names which were 1550+, we can see that dog named pupper are large in number.



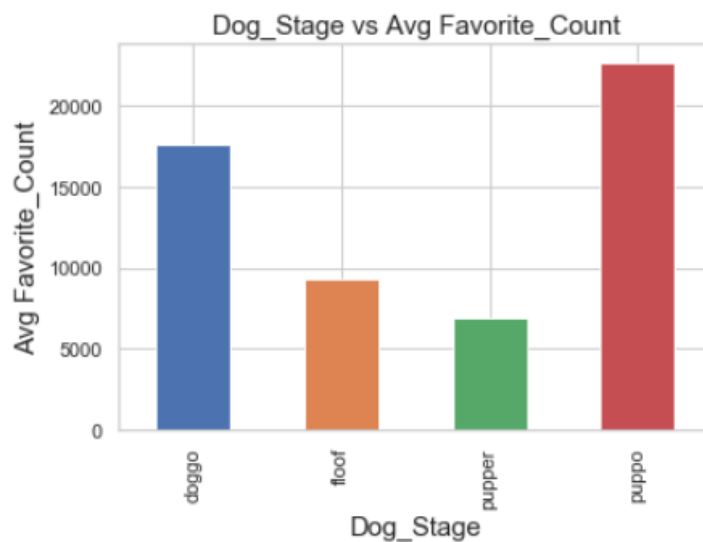
10. All the dogs have almost similar rating but if we go for deep, we can see puppo have large rating.

```
1 dog_stages.groupby('dog_stage')['favorite_count'].mean().plot(kind='bar')
2 plt.title('Dog_Stage vs Avg Favorite_Count', fontsize=15)
3 plt.xlabel('Dog_Stage', fontsize=15)
4 plt.ylabel('Avg Favorite_Count', fontsize=15)
5 plt.show()
```



11. Dog stage puppo have highest and pupper have lowest fav count. Ratings are provided in subjected way by an account weratedogs, So there can be such differences bw rating and like\_counts that we are seeing.

```
1 dog_stages.groupby('dog_stage')['favorite_count'].mean().plot(kind='bar')
2 plt.title('Dog_Stage vs Avg Favorite_Count', fontsize=15)
3 plt.xlabel('Dog_Stage', fontsize=15)
4 plt.ylabel('Avg Favorite_Count', fontsize=15)
5 plt.show()
```



## Result

1. Dog breed prediction by Neural network is not 100 percent accurate because we have seen some other images like fish.
2. The dog stages are not mentioned in the tweets, so there is more work to do apart from extraction, correction and cleaning.
3. A number of tweets rate other things. That's why there is low rating so again more cleaning to do.
4. retweets, ratings and favorites aren't associated with dog images and videos, account holder's thinking also matters

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