

A dark blue vertical bar on the left side of the page. A blue arrow points to the right from the bar, containing the date.

5/9/2022

Act_report

Several thin, curved lines in dark blue and light gray originate from the bottom left corner and curve upwards and to the right.

Dihia Mezghiche

Report: act_report

In this project we will be studying the tweets of the twitter account @dog_rates.

For the analysis of this dataset, I asked myself the following questions:

1. What is the most common name?

To answer this question we will just use a value_counts on the name column it will let us know how many time a name occurred in the dataset.

```
Out[108]: None          609
Charlie         11
Oliver          10
Cooper          10
Lucy            10
Penny           9
Tucker          9
Winston         8
Sadie           8
Toby            7
Lola             7
Daisy           7
Koda            6
Bella           6
Stanley         6
Bo              6
Jax             6
Oscar           5
Buddy           5
```

* Since we already know that None is just a way to fill missing values and wrong names that makes Charlie the most common name with 11 dogs named that way in our dataset.

2. What is the breed of the highest rating?

```
] : tweet_id          778027034220126208
img_num              1
Prediction_1         clumber
P1_accuracy          0.946718
p1_dog               True
Prediction_2          cocker_spaniel
P2_accuracy          0.01595
p2_dog               True
Prediction_3          Lhasa
P3_accuracy          0.006519
p3_dog               True
rating_numerator      27
rating_denominator    10
name                  Sophie
dog_age              pupper
favorite_count        7320
retweet_count         1885
Name: 1424, dtype: object
```

* The breed of dogs with the highest rating is Clumber

3. What is the breed of the dog with the highest retweet?

As you can see below , using the describe function we got the highest retweet that has been done on a tweet which is 56625, and we want to know what is the breed of the dog that got that high number of retweet, to do that we only need to create a query that will select only the tweet where the number of retweets is the same as this one and the result is shown in the second figure.

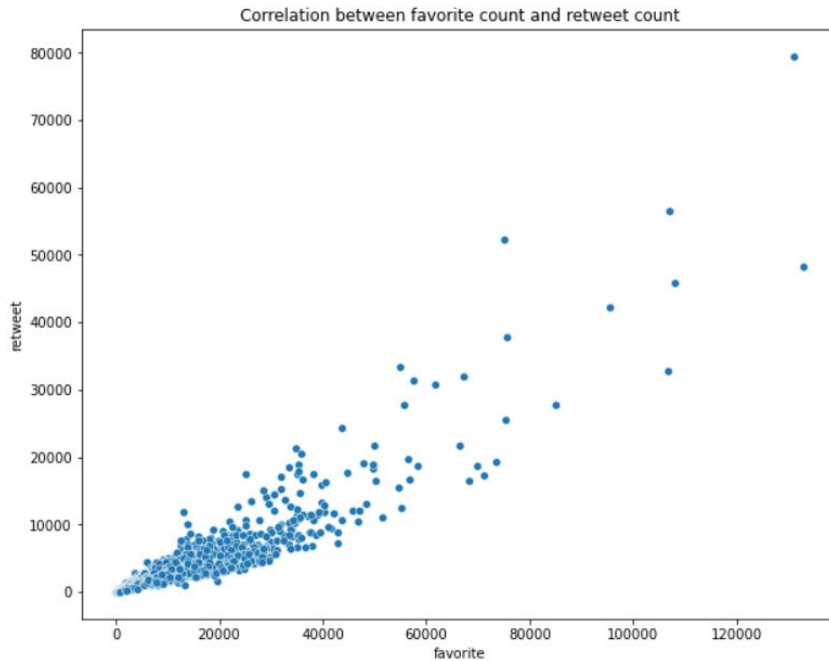
	tweet_id	img_num	P1_accuracy	P2_accuracy	P3_accuracy	rating_numerator	rating_denominator	favorite_count	retweet_count
count	1.189000e+03	1189.000000	1189.000000	1189.000000	1189.000000	1189.000000	1189.0	1189.000000	1189.000000
mean	7.420630e+17	1.224558	0.627774	0.143487	0.061188	10.970563	10.0	9340.322119	2763.436501
std	6.937515e+16	0.582462	0.253556	0.104115	0.052762	1.801601	0.0	12604.508454	4533.376621
min	6.660209e+17	1.000000	0.044333	0.000056	0.000011	2.000000	10.0	81.000000	16.000000
25%	6.783968e+17	1.000000	0.417107	0.055902	0.014763	10.000000	10.0	2236.000000	653.000000
50%	7.156808e+17	1.000000	0.633037	0.130726	0.048572	11.000000	10.0	4578.000000	1425.000000
75%	8.003883e+17	1.000000	0.853407	0.207753	0.094933	12.000000	10.0	11746.000000	3224.000000
max	8.921774e+17	4.000000	0.999876	0.467678	0.271042	27.000000	10.0	132810.000000	56625.000000

Prediction_1	retweet_count
1577 Chihuahua	56625

* And so the breed of the dog with the highest retweet is a chihuahua that has a rating of 13/10

4. Are the favorite count and retweet count linked to one another?

To answer this question, we are gone need to plot the correlation of these two attributes and calculate its rate. The Image bellow on its own clearly shows a strong link between the two attribute and since the correlation plot seems to go higher as the number of favorite tweets and retweets increases, we can suppose that the correlation type is a positive one. To confirm that I calculated the correlation coefficient and the results was of 0.91 which confirms are supposition that the correlation is positive.



```
array([[1., 0.91304379],  
       [0.91304379, 1.]])
```

* We can clearly see that the correlation coefficient between favorite count and retweet count is positive as its rate is of 0.91 which mean that the value of the two attributes is linked to one another.