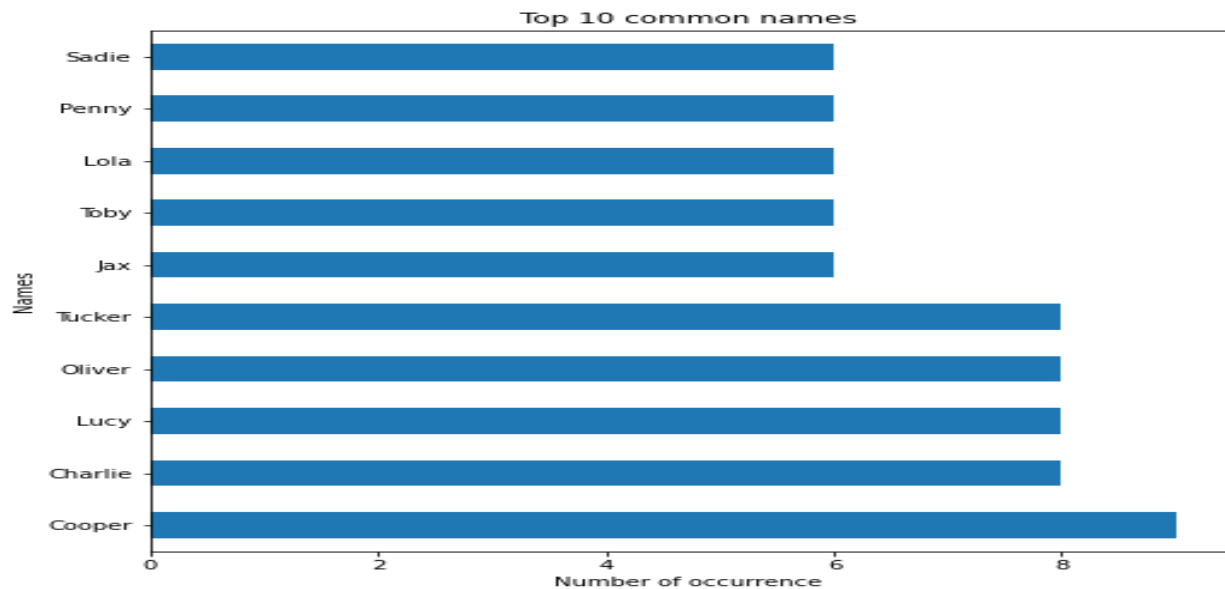


Analyzing and Visualizing Data

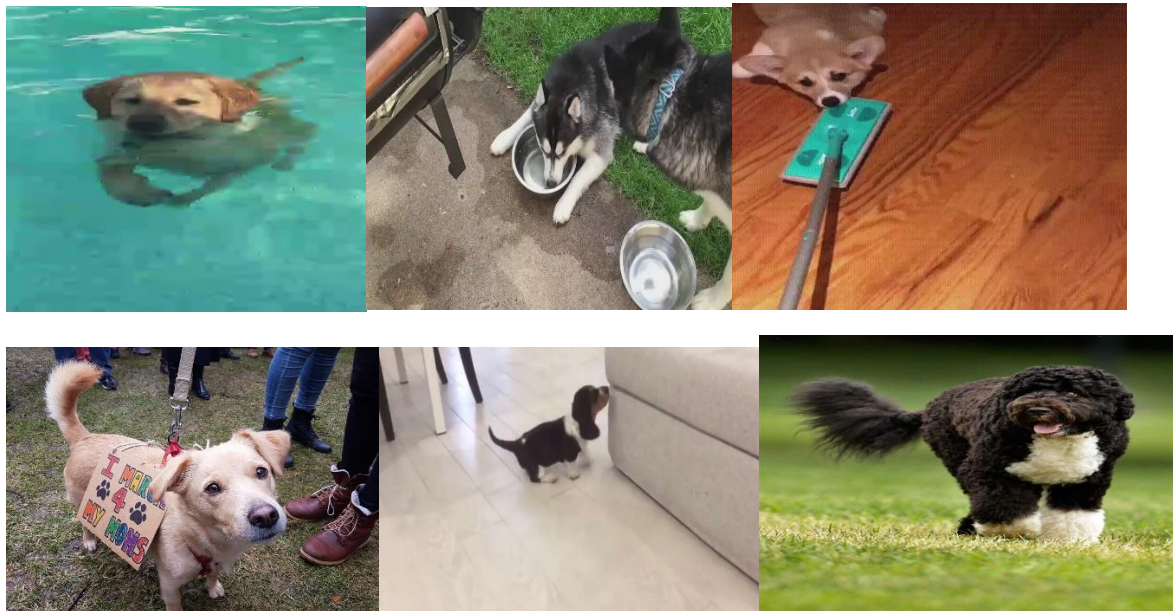
Data analysis helps in extracting actionable, relevant information that helps to make informed decisions[1]. With the help of Visual aids, it is easier to draw insight for them. After getting a cleaned master dataset, I was able to get some insight from the data.

1. Top 10 most names in the dataset



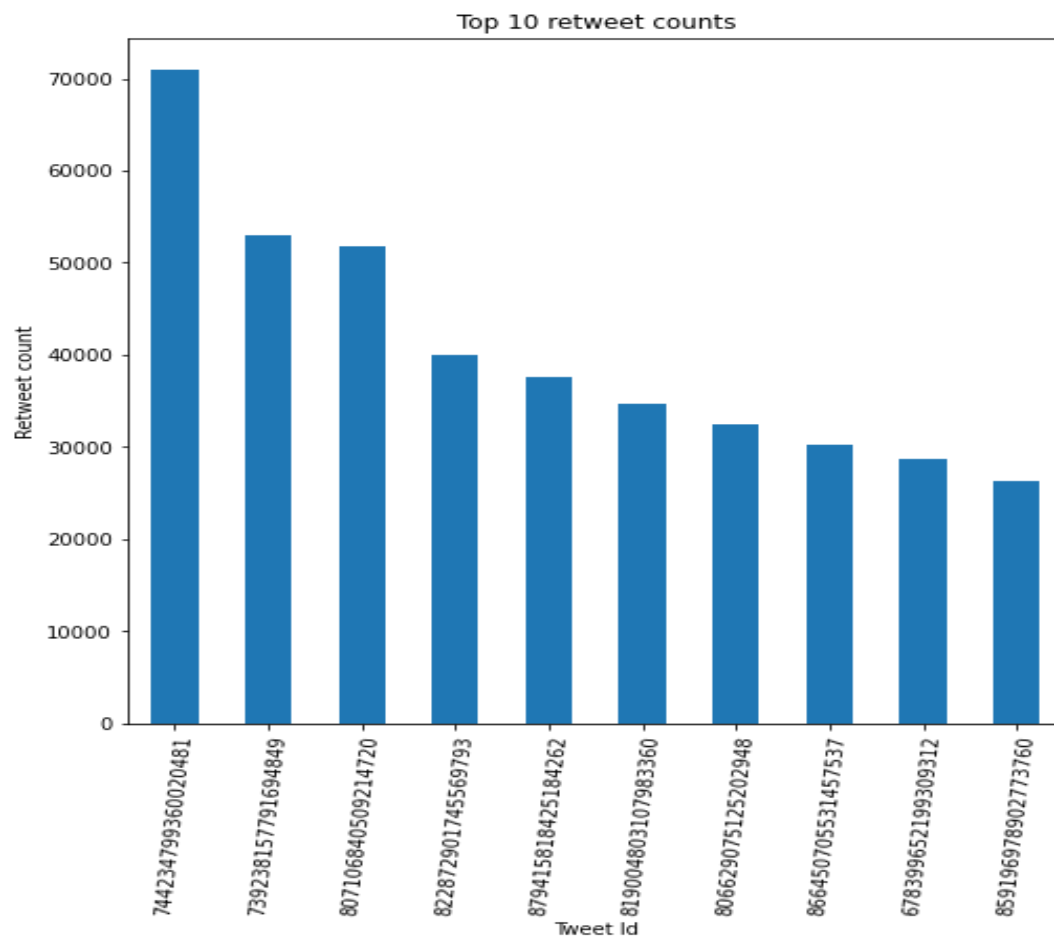
From the bar graph above, the favorite dog's name is Cooper, followed by Charlie and then Lucy until the 10th Sadie.

2. Top 10 Retweeted dogs





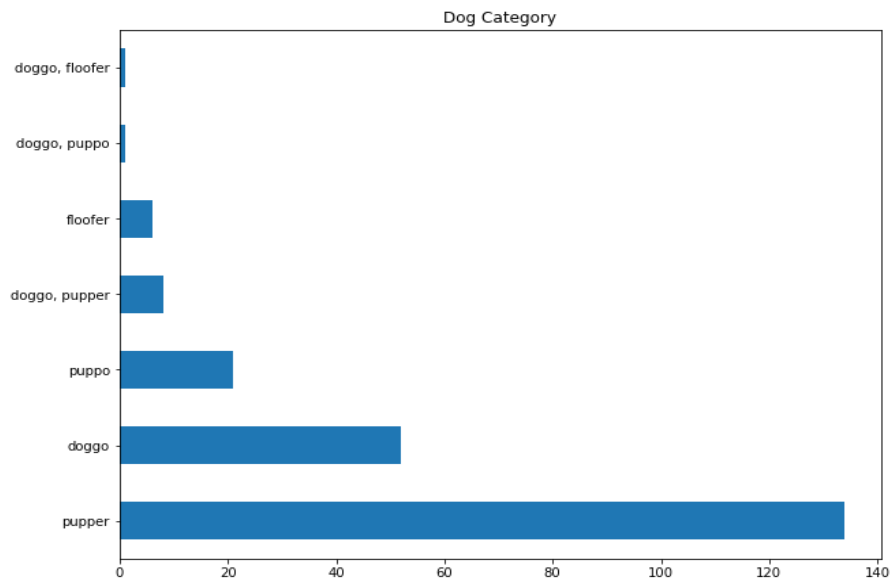
The above images are for cute dog tweets that have been retweeted on many occasions. And the ranking of their IDs are explained in the bar graph below.



The first one has around 70000 retweets while the tenth is around 30000 retweets.

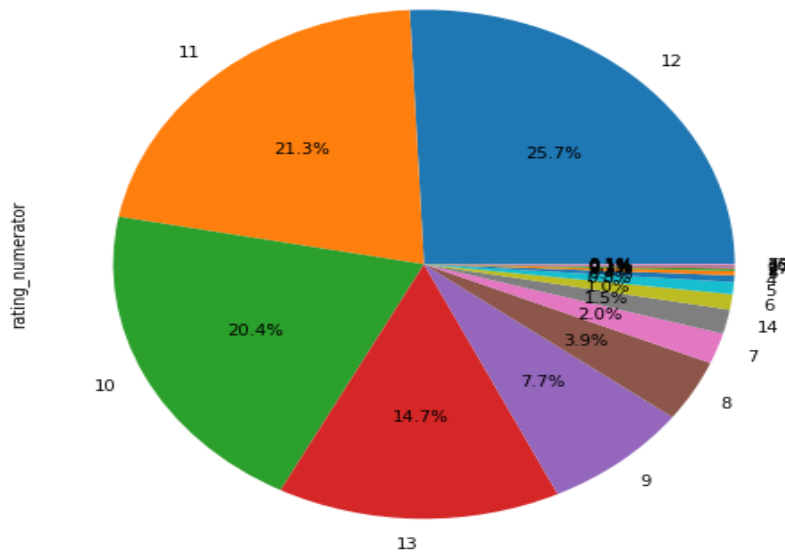
3. Dog Categories

The histogram plot has been plotted in order to check the ranking of the dog categories



From the above, the Pupper category is the most category of dogs in the dataset, followed by doggo and puppo category. The last category with very few dogs is doggo,floofer category.

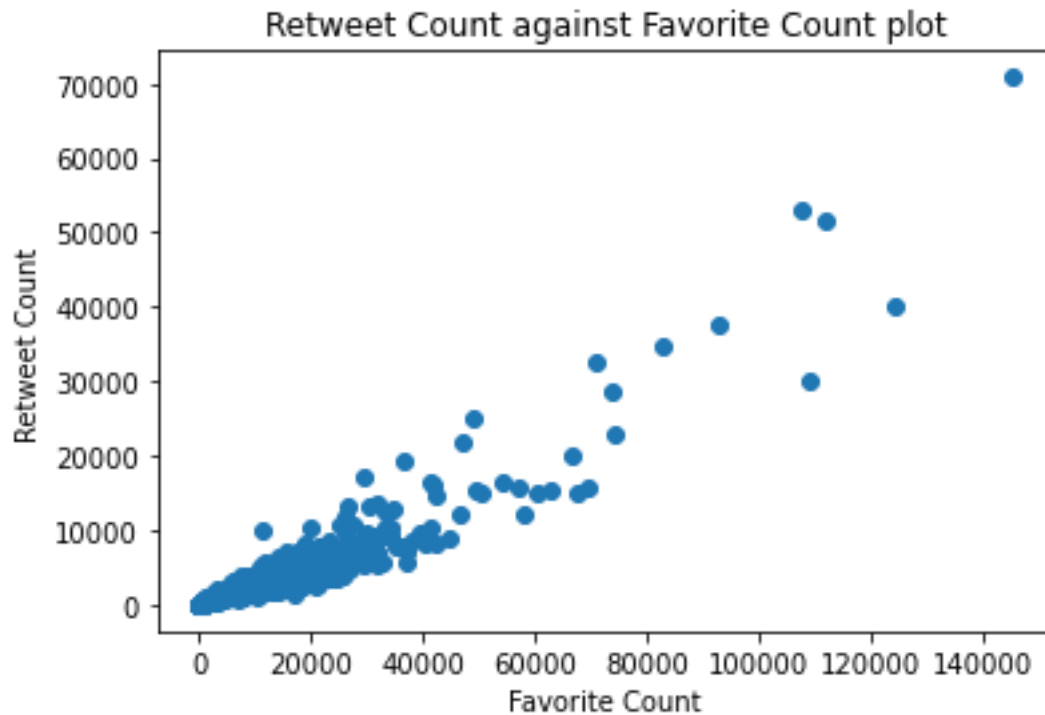
4. Dog ratings out of 10



From the plot above, most dogs are rated 12/ 10 in the dataset, around 26.7% of all dogs, the second rating is 11/10 with 21.3%, followed by 10/10 with around 20.4%. 13/10 has 14. 7% of all ratings while 9/10 has around 7.7%.

5. Relationship between Favorite Count and Retweet Count

With a correlation of 0.93013, the above features are very correlated, i.e., if one increases or reduces, the other values will increase or reduce almost at the same rate.



The scatter plot also that the correlation between the above feature is very high visually.

Limitations

The limitations of the analysis and visualization are that we don't have a specific goal we wanted to achieve, which makes it difficult to know what kind of analysis we will make or what kind of plot we have to provide.

References

[1]K. Kelley, "data-analysis-methods-process-types-article", *simplilearn.com*, 2022. [Online]. Available: <https://www.simplilearn.com/data-analysis-methods-process-types-article>. [Accessed: 17- Jun- 2022].