

Report Analyzing & Visualizing Insights For 'WeRateDogs' Data



Udacity-FWD Initiative| Professional Data Analysis
Nanodegree

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Project Overview

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."



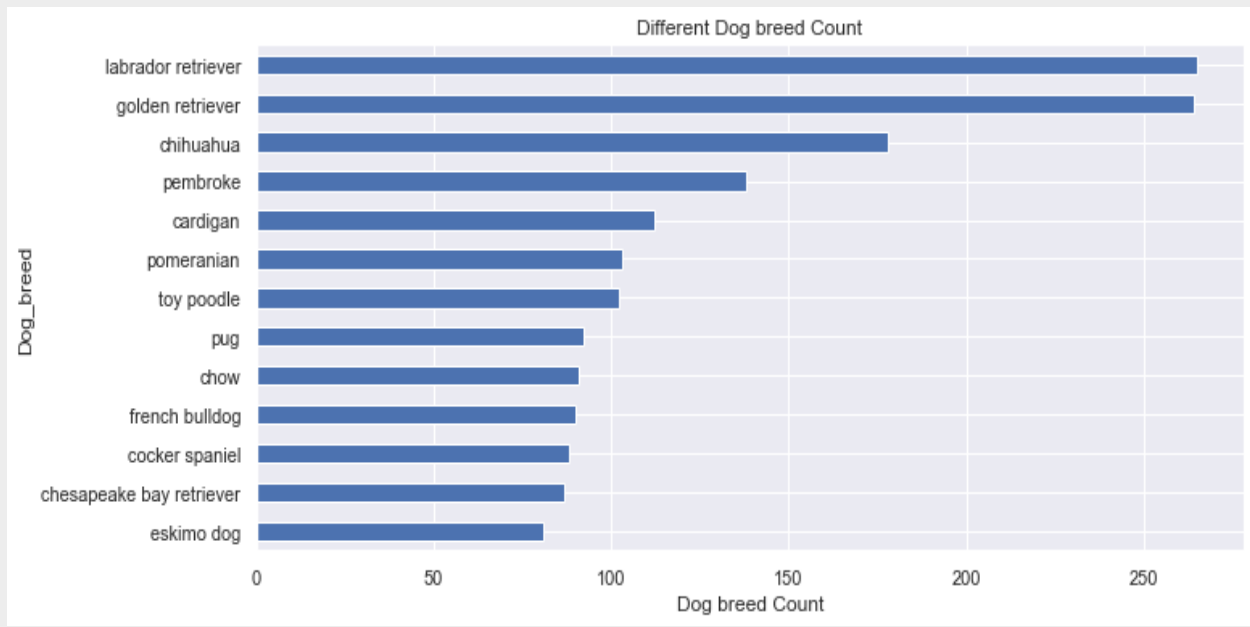
Wrangling 'WeRateDogs' Twitter data for insightful and trustworthy analysis and visualizations will be covered in this report.

Resulting Insights & Visualizations:

'WeRateDogs' datasets contain about 5000+ tweet data for their account on twitter, started from August 1, 2017. After analyzing datasets, I had cleaned versions of these datasets containing about 1900+ of tweet-data attached in csv file: 'Twitter_archive_master'. Let us focus on insightful and interesting facts out of their data.

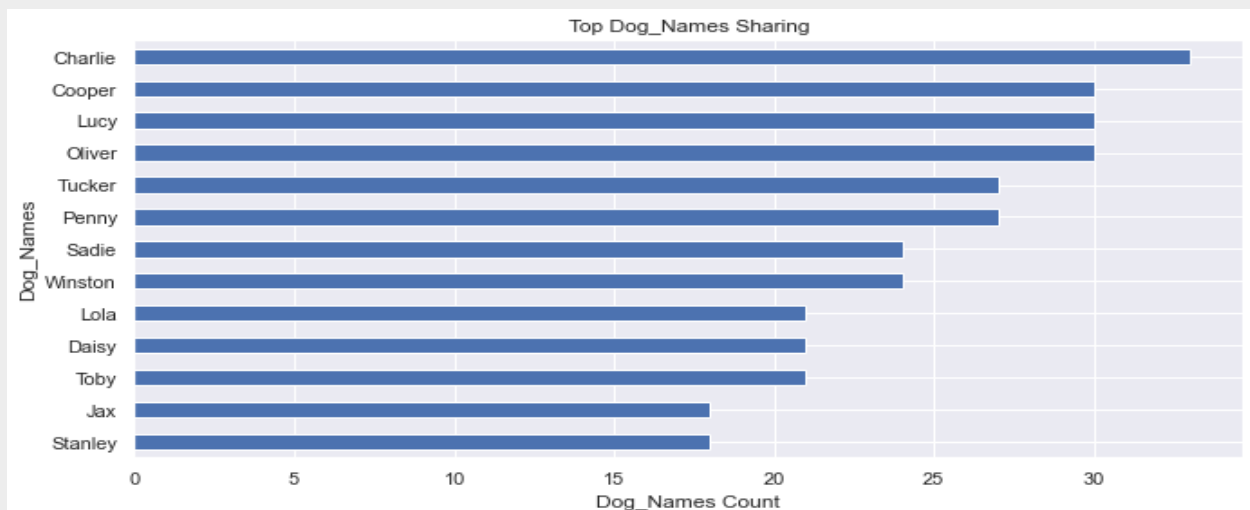
Most Common Dog Breeds

The figure as shown below demonstrates The highest 12 dog breeds. 'labrador retriever' and 'golden retriever' are the highest with 260 score, doubling the next 'chihuahua' score with about 130.

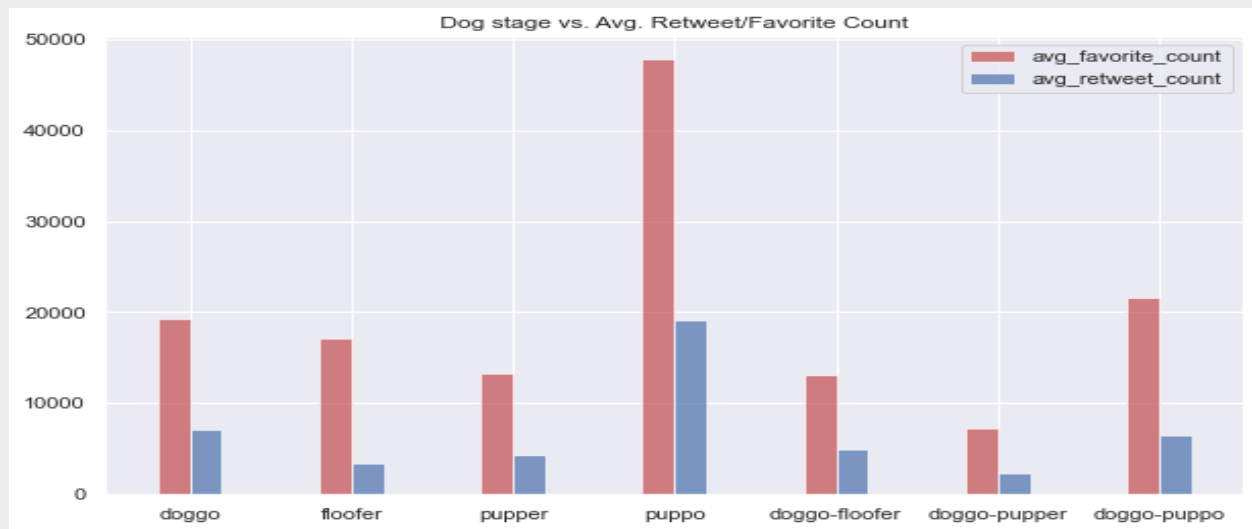


Most Common Dog Names

The figure as shown below demonstrates Top dog names. 'Charlie' is the most used with score of 33.



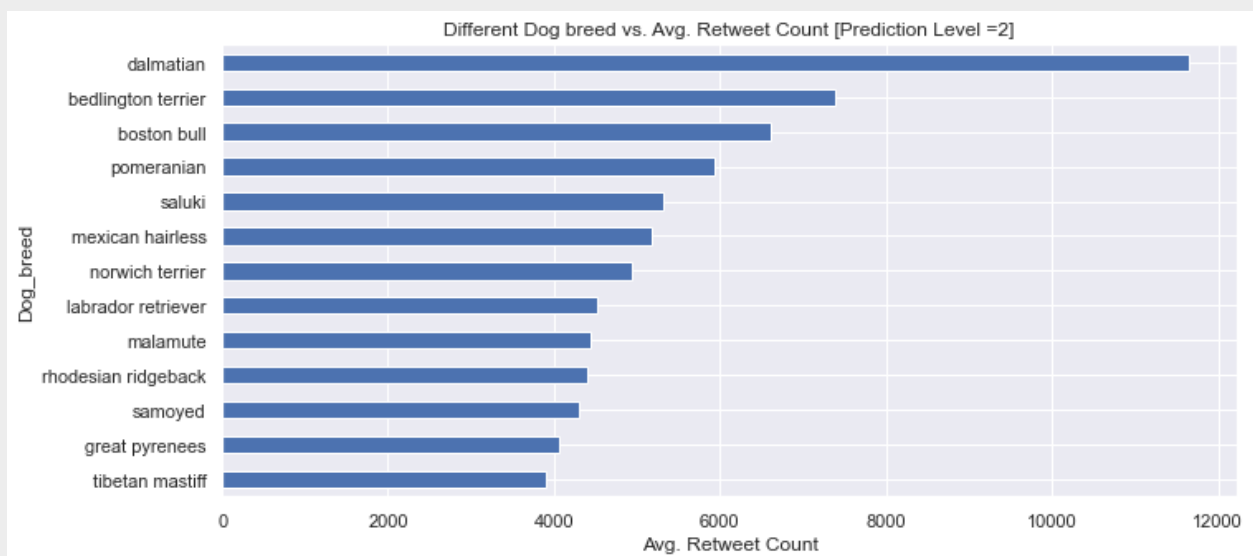
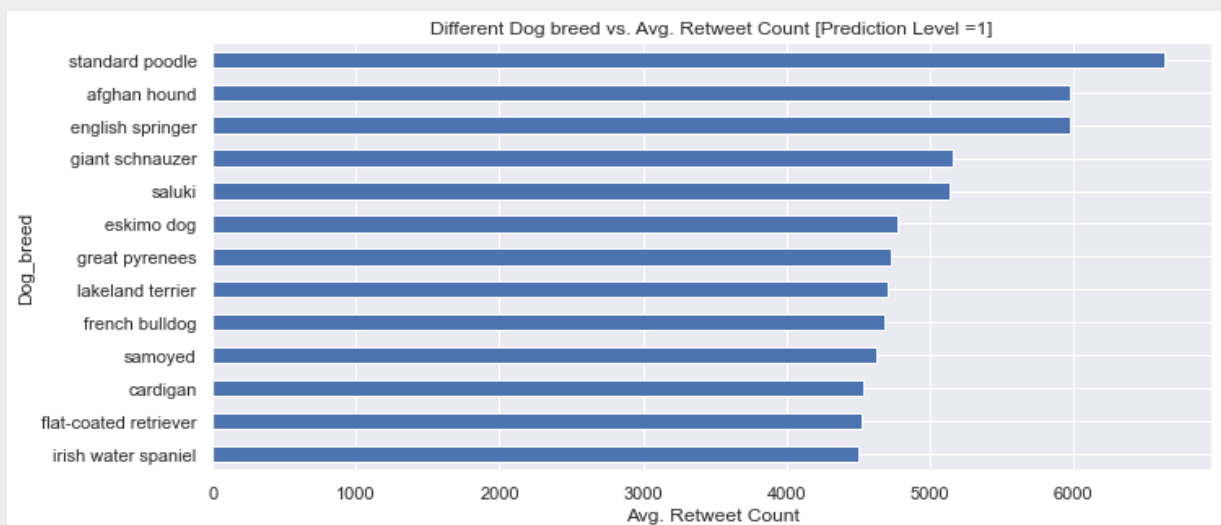
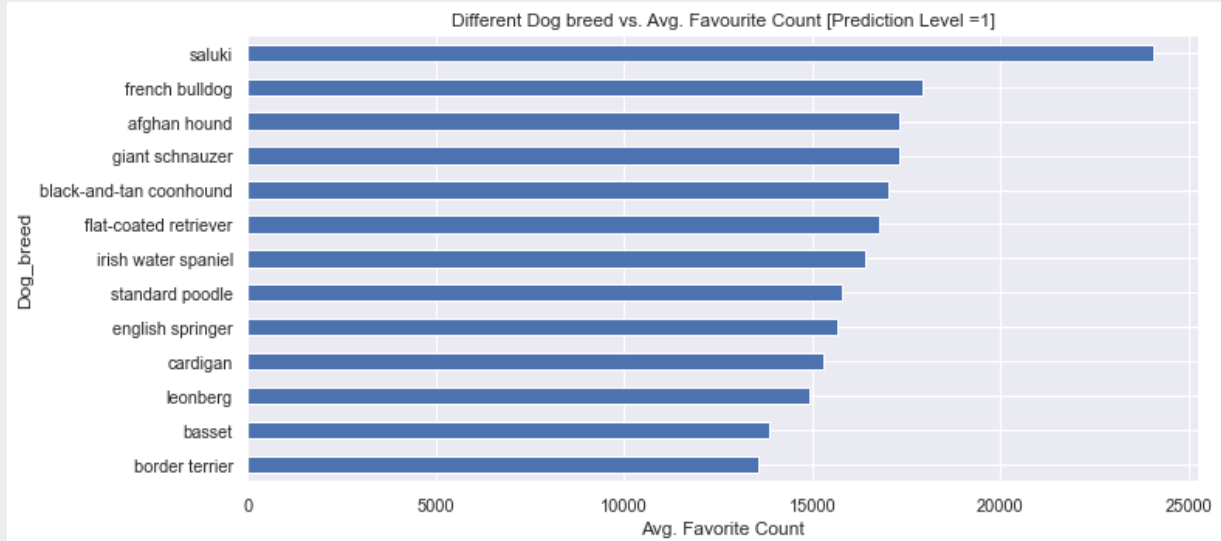
Dog Stages vs. Retweet- Favorite Count

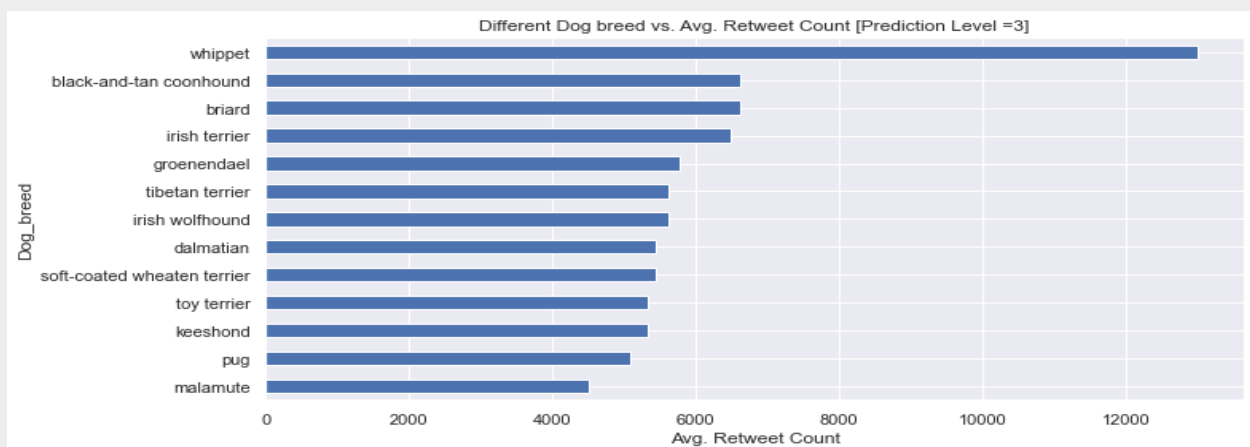
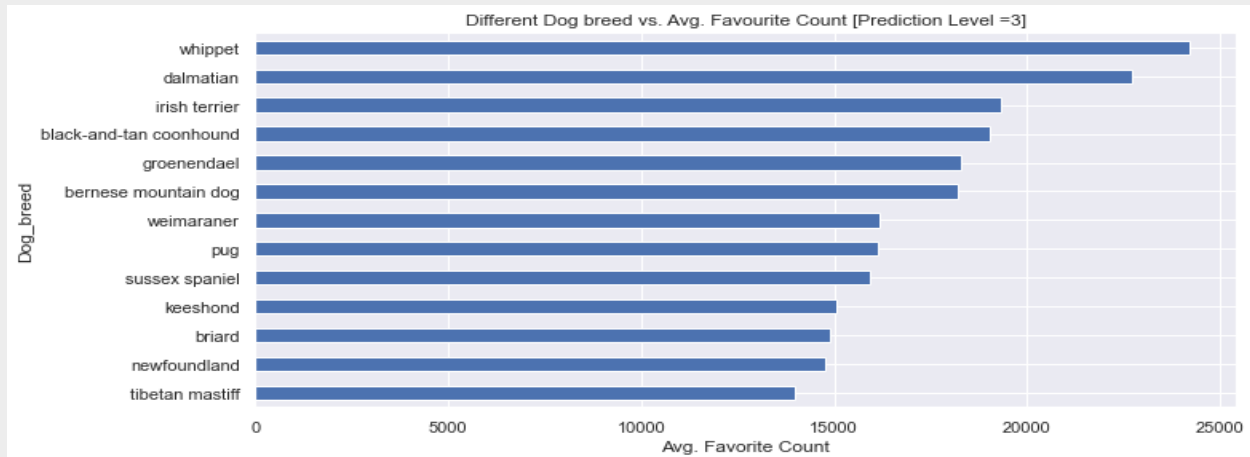


The figure as shown above tells us how much people interacting with favorites and retweets with 'puppo' dogs with the highest score between othe dog stages for around 140k+ avg. favorites score and 18k for avg. retweets. Another interesting insight is that people do love interacting with images for the same dog in different stages, make 'doggo-puppo' the next score in avg. favorites with around 22k+ score.

Dog Breed vs. Retweet- Favorite Count

For this insight, I am trying to investigate how much people interacting with different dog breeds referenced to prediction_level; this results contribute my investigation for orignal images showing how it is important to make analysis confined to the highest prediction_level: 3.





Statistics' Visualizations

Visualizations as shown below tell us interesting findings such: avg. retweet/favorite count for each of dog breeds, most source of interacts, most used name for dogs.

```
<Doggo>
Mean Retweet Count: 7126
Mean Favorite Count: 19356
<Doggo-Floofer>
Mean Retweet Count: 3433
Mean Favorite Count: 17169
<Doggo-Pupper>
Mean Retweet Count: 4397
Mean Favorite Count: 13220
<Doggo-Puppo>
Mean Retweet Count: 19196
Mean Favorite Count: 47844
<Floofer>
Mean Retweet Count: 4969
Mean Favorite Count: 13206
<Pupper>
Mean Retweet Count: 2383
Mean Favorite Count: 7251
<Puppo>
Mean Retweet Count: 6474
Mean Favorite Count: 21582
```

Visualizing Most Sources interacting with WeRateDogs Twitter Account

```
master_df['source'].value_counts()
```

```
Twitter for iPhone    5796
Twitter Web Client    84
TweetDeck             33
Name: source, dtype: int64
```

visualizing Most Rated Dog_names

```
master_df.name.value_counts()
```

```
Charlie    33
Cooper    30
Oliver     30
Lucy       30
Tucker     27
..
Obie        3
Brat         3
Emma         3
Strider      3
Fwed         3
Name: name, Length: 931, dtype: int64
```

Conclusion

There are a lot of insights for further working on these data, we are just picking few interesting ones.

References

- <https://nfpdiscussions.udacity.com/t/weratedogs-data-wrangling-gathering-data-part/67534/2>
 - <https://nfpdiscussions.udacity.com/t/cleaning-quality-issues/67893>
 - <https://www.kite.com/python/answers/how-to-check-if-a-character-is-uppercase-in-python>
 - <https://nfpdiscussions.udacity.com/t/concerning-name-column/42212/5>
 - <https://stackoverflow.com/questions/7353968/checking-if-first-letter-of-string-is-in-uppercase/7354011#7354011>
 - <https://nfpdiscussions.udacity.com/t/project-2-assessing-data/44649/6>
 - <https://nfpdiscussions.udacity.com/t/insights-and-visualization-weratedogs/40725>
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