

## Act Report

I have worked on three source files for Udacity's data wrangling project. Firstly, I collected data from CSV files, JSON text files, and scraping data from Twitter API. Then I merged the data into a single data frame. I assessed the data for underlying issues. I resolved them one by one. I described in detail each step in the Wrangel report. So, here I am going to talk about the only visualizations and overall results of data in detail.

**Correlation Heat Map:** Firstly, I created the correlation heat map to check the relationships between different columns such as favorites retweets.

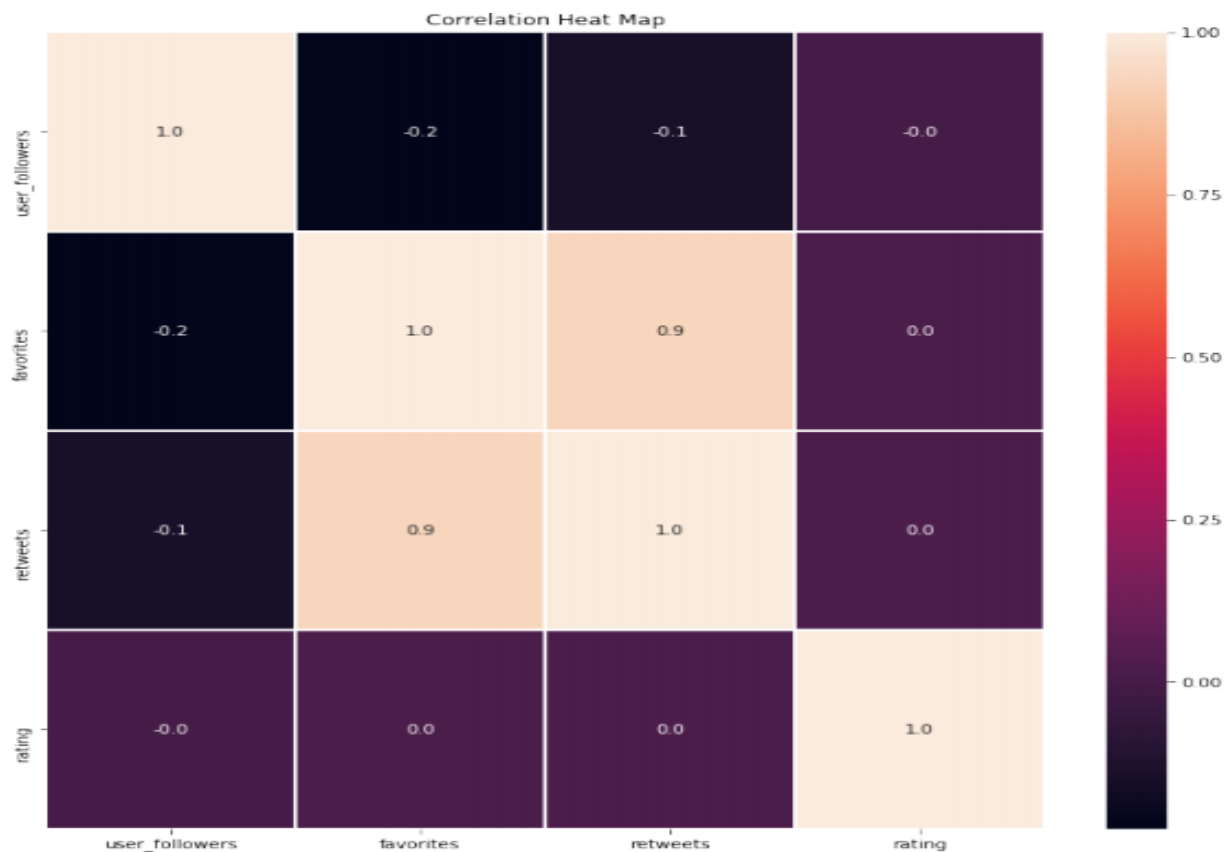


Fig.1 Correlation Heat Map

From above we can see the strong positive correlation (0.9) between retweets and favorites. There is weak negative correlation between user followers and retweets (-0.2) means having more followers does not increase the retweets. There is no relationship between the rating and user followers.

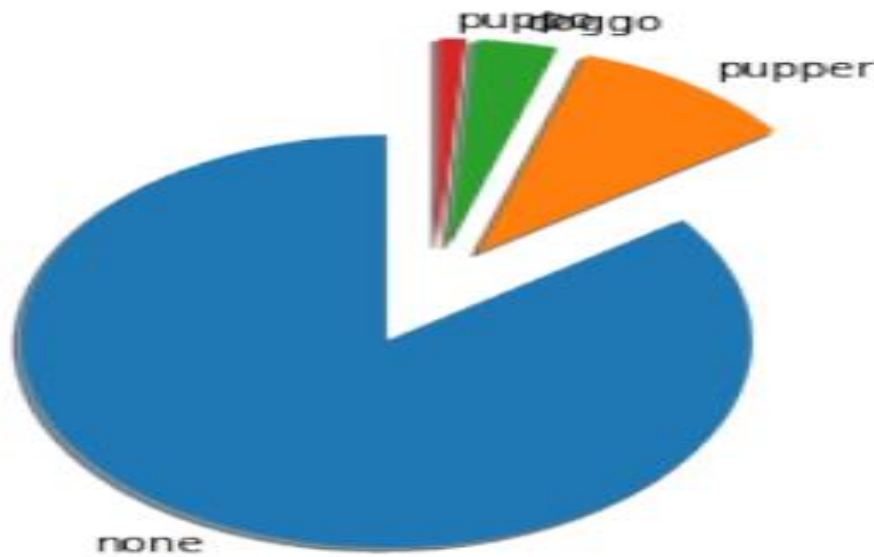


Fig2. Life stage of dogs

If we see the pie chart, we can conclude that pupper stage of dog's life got the maximum of tweets which further followed by doggo. But if we see the none, most of the tweets belongs to the none (stages are not mentioned).

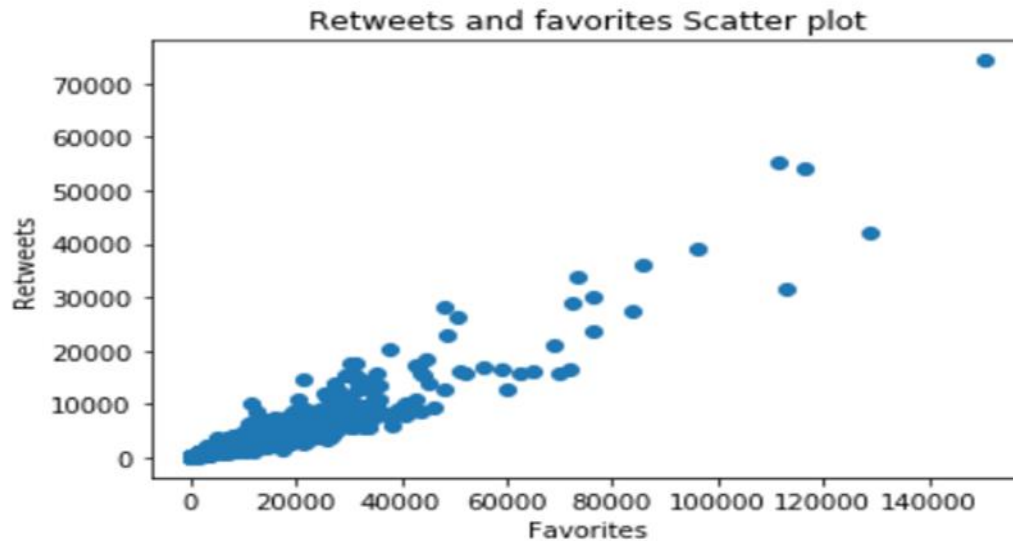


Fig.3. Scatterplot of Retweets and Favorites

From above plot, we can see there is a correlation between the number of retweets and the favourites for every tweet which shows how humans could react more positively for the tweets or posts that they like better.

From analysis study, the most rated 10 dog types are golden retriever (158), Labrador retriever (106), Pembroke (95), Chihuahua (91), pug (62), toy poodle (50), chow (48), Pomeranian (42), Samoyed (41), and malamute (33).

## Conclusion

Through all the analysis I made, I can say that the twitter data of WeRateDogs gives us a lot of interesting perceptions about people's tweet about the different breeds of dogs w:r:t their different life stages. Moreover, having more followers on twitter does not increase the retweets of user's tweet. We also noticed that when the favourites are going higher the retweets getting higher too and that might be because people who liked a certain tweet, they use to engage more with that tweet.

