



[Data Analysis]

'They're good dogs Brent'

If you google the sentence above, You will find the one of the greatest meme of all time about dog . And that came from the famous twitter account WeRateDogs

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The @dog_rates, also known as WeRateDogs, is a Twitter account that rates people's dogs with a hilrarious comment about the dog. I've gathered data from 3 sources which are Enhanced Twitter Archive of this account and Tweet's JSON data containing information about retweets and favorite. Also the cool stuff of image prediction dataset that use neural network to predict a dog from the WeRateDogs account. After the enjoyable wrangling data process, here come the 4 insights I draw from the dataset.

What is the top ten most popular dog name

When it comes to dog naming, there is a lot of endless choices to be pick. In this data analysis, I found the most popular name is 'Charlie' with 11 occurrences. Fig1 is the horizon bar plot showing top ten name in this dataset.

The occurrence of each name are Charlie (11), Lucy, Oliver, and Cooper (10), Penny and Tucker (9), Winston and Sadie 8, Toby, Lola, and Daisy (7).

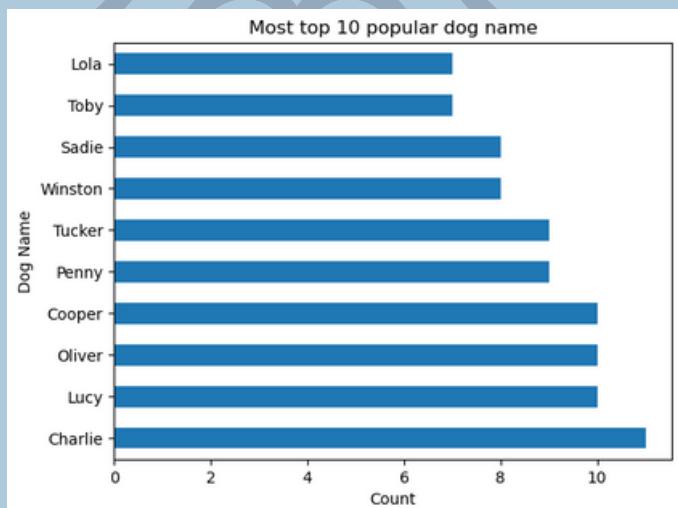


Fig1 : The horizon bar plot of the most top 10 popular dog name.





What is the proportion of dog stages?

This dataset also provided the information about dog stage (you can find more information about it in the #WeRateDogs book on Amazon). There are various stages of dog: doggo, pupper, puppo, and floof(er). Noting, that there are only 302 dog state data points available in this dataset. Fig2 shows the pie chart indicating the proportion of dog stage.

The occurrence of each stage are pupper (203), doggo (62), puppo(23), floof(er) (8)

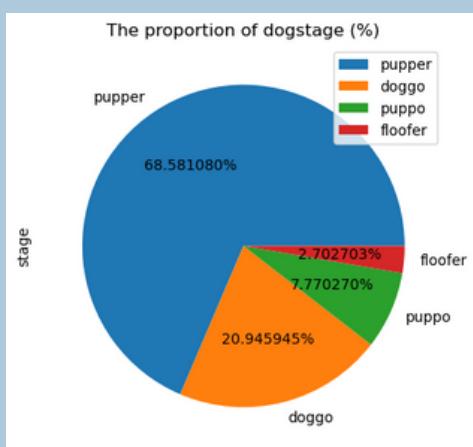


Fig2 : The pie chart of the proportion of dog stage (%)

Which dog stage got the most retweet?

The dog stage that got the most retweet is pupper with 492,544 retweet counts while the doggo, puppo and floof(er) got 447,415, 161,623 and 38,214 respectively.



Fig3 : Sample photo of the dog with pupper stage



What kind of the top five dogs that the image prediction algorithm has a high confident ?

This dataset also include the prediction result of the neural network machine learning algorithm. I'm very curious what kind of dog that the neural network have a high confident in the prediction.

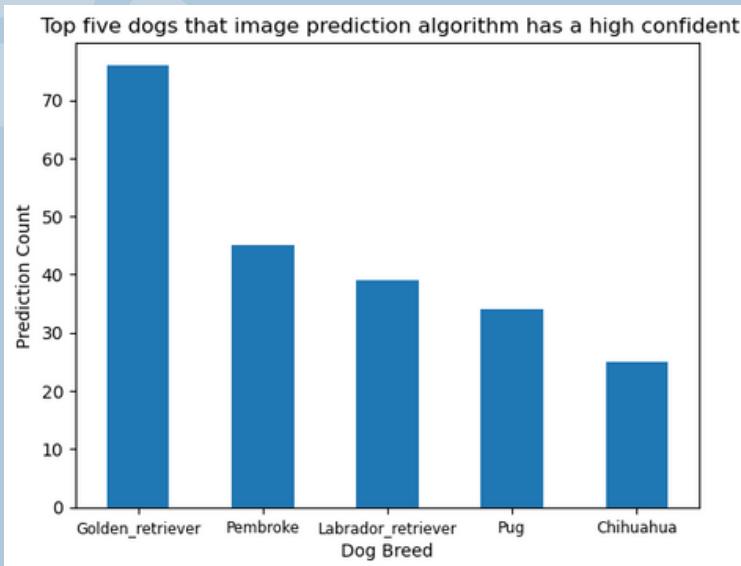


Fig4 : The bar chart of Top five dogs that the image prediction algorithm has a high confident

The result is shown in fig4 which are Golden Retriever (76), Pembroke (45), Labrador Retriever (39), Pug (34), and Chihuahua (25)

As the Golden Retriever have the most prediction count with a high confident value. I sample 5 random photos which the neural network predicted as Golder Retriever and results is below



I really hope you enjoy my 4 insight analysis and visualization from the data from WeRateDogs twitter account. Stay tune fo the next dataset!



Fig5 : The 5 random photos which the neural network predicted as Golder Retriever



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