

Udacity

Data Analyst Nano degree

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Act Report

Introduction

This paper was made in order to explain the relationship between cute dogs and the Twitter account we rate dogs, and here I will try to expose how they exceeded in the art of being the best friends you can have at the same time they can also stay classy and bring joy to the internet.

Body

Some questions that did arise when I first looked at the data were regarding the breed of each dog, and I found me thinking about the advantages that some breeds could have, also I did think about the extremely interesting rating method used here which lead me to consider only the rating numerator as I would be crazy right now if I tried to normalize it, and to finish, another question that I tried to answer was regarding the reported stage of each dog.

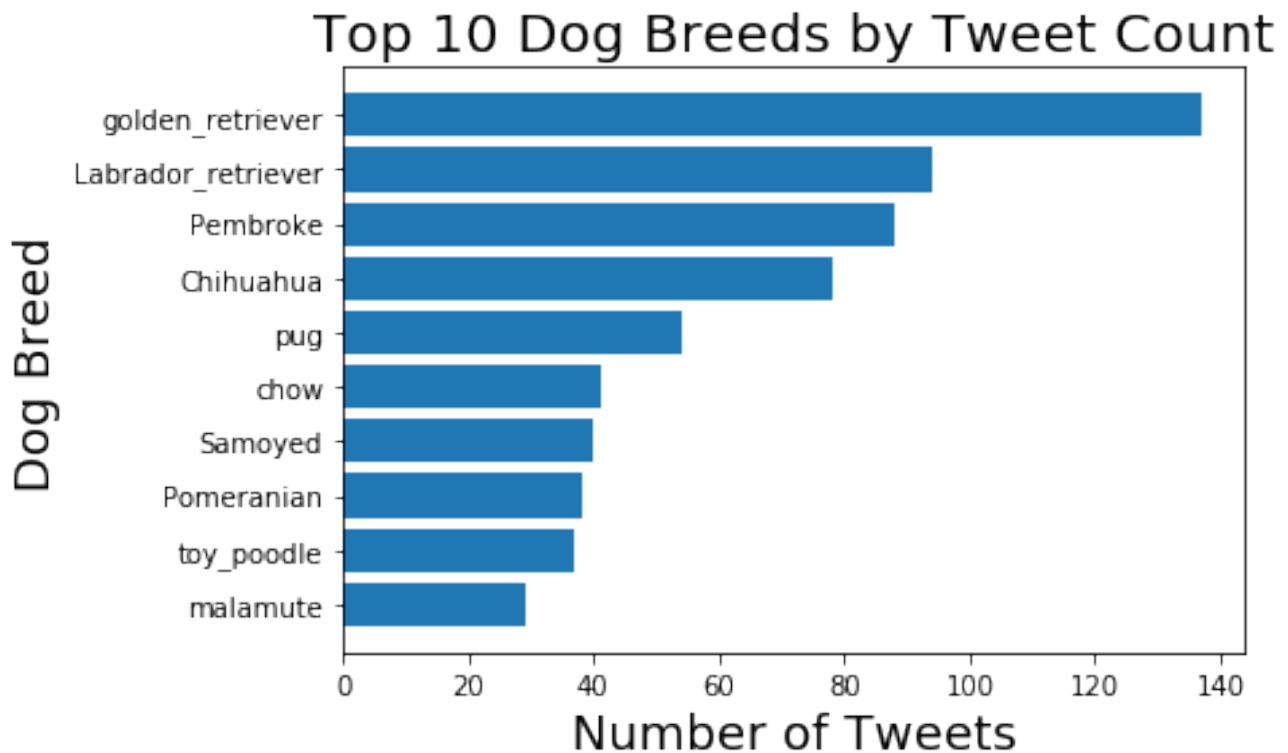
So, let's try to answer these questions, but first, let's get in the mood for this:



A model Golden Retriever - image retrieved from [chewy.com](https://www.chewy.com)

The first question that arise for me was to see which breed of dog was the most commented in the data, and after some little investigation I could see that, with zero surprise, the Golden Retriever was the breed that received the most number of posts in this data set, reaching 137 posts that was extremely likely to contain a Golden retriever on that.

Also, I could see the ten most commented breeds of dog, and personally for me, the only breed that surprised me for not making the ten most commented breeds was the French bulldog, said that, let's see which breeds made it to the top ten in terms of aggregate comments:



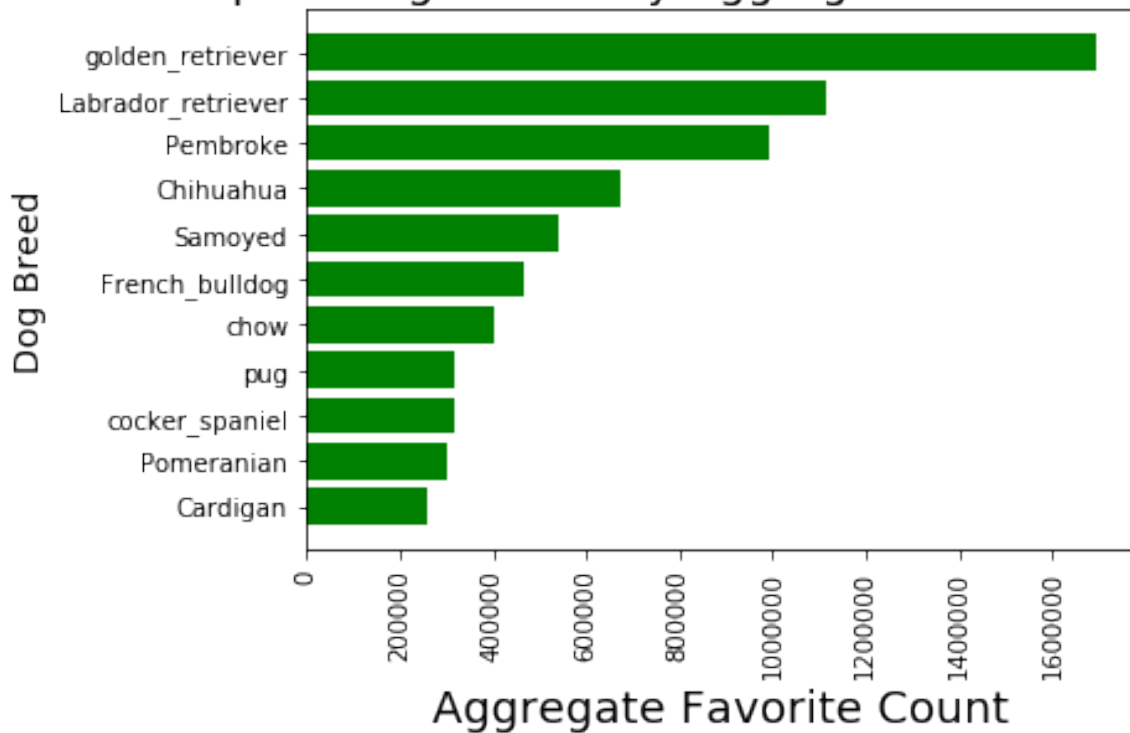
Top 10 Dog Breeds by Tweet count

Wow! Looks like the Golden retriever is really outside if the curve, when we consider only the total tweets that were predicted to have a breed that matches the Golden.

If we continue to consider the breeds as a differential for each dog in this data set, we can try to imagine that, although the Golden Retriever received the most tweets, could it maintain the first place when we consider the total number of favorite marks received?

After doing some more data investigation, an interesting think happened! And it's with zero surprise that I can say that, although I tried to dethrone the Golden Retriever, looks like this cute dude is making it to the top, and looking at the graph below, we can see, again, that the top spot is occupied by the Golden Retrieved.

Top 10 Dog Breeds by Aggregate Favorite Count



Top ten Dog Breeds by Aggregate Favorite Count

Wow again! It seems that the Golden Retriever received more than one and a half million favorites! Isn't this breed amazing?

Another really cool thing that we can notice here is that, when we consider the number of favorites received by breeds, we can see the great French Bulldog in the sixth place, which is amazing, considering that this breed doesn't figure the ten most breeds by tweet count!



A French Bulldog. Image retrieved from [chewy.com](https://www.chewy.com)

Looks like now, we clearly now the reason that the French Bulldog received the sixth place considering how much favorite counts received by breeds. How can anyone pass through a photo like that without marking it as a favorite one?

One thing that seems unfair with other breeds is to compare them with the Golden Retriever, so let's try to see if the other breeds also had a great rating.

After some magic with my data analytics techniques, I could see that, considering only the rating numerators, 79% of all rated dogs got the rating numerator of 10 or more! Yes, looks like almost 80% of them are irresistible.

The last thing I tried to figure out was regarding the stage of the dog, and looking at the data, we can see that only 15% of all posts had a stage defined, so, this is one variable that I would consider a way to improve gathering, as with only 15% we cannot analyze without considering that it probably do not represent our population of interest.



Some Breeds of Dog Together. Image retrieved from [cherry.com](https://www.cherry.com)