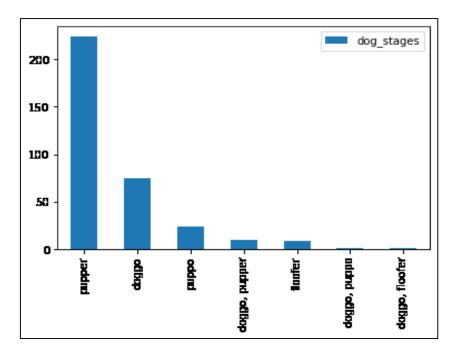
ANALYZING AND VISUALIZING DATA

I recently undertook a data wrangling project by Udacity that involved analysing the tweet archive of Twitter user odog rates, also known as WeRateDogs. WeRateDogs is a Twitter account that rates people's dogs with a humorous comment about the dog.

The first step involved loading the data into my Jupyter notebook via the *pd.read_csv* function. My cleaned dataset (cleaned_data) had a total of 2127 rows and 20 columns.

I then analysed and visualized the data to derive a few insights, as shown below:

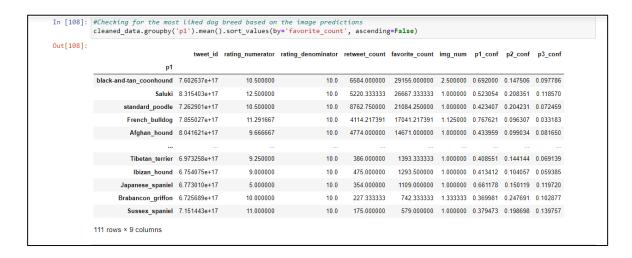
1) The most common dog stage is the pupper, followed by the doggo and puppo, each with 224, 75 and 24 dogs respectively. The distribution is as below:



Looking further into the dog breeds under the pupper dog stage, the Golden retriever, the Pembroke and Labrador retriever were the most common, with 16, 10 and 8 dogs respectively.

2) On average, the standard poodle dogbreed received the most retweets when compared to other breeds under the first prediction (p1). On the other hand, the black-and-tan coonhound dogbreed received the most likes.

ut[107]:										
		tweet_id	rating_numerator	rating_denominator	retweet_count	favorite_count	img_num	p1_conf	p2_conf	p3_conf
	p1									
	standard_poodle	7.262901e+17	10.500000	10.0	8762.750000	21084.250000	1.000000	0.423407	0.204231	0.072459
	black-and-tan_coonhound	7.602637e+17	10.500000	10.0	6584.000000	29155.000000	2.500000	0.692000	0.147506	0.097786
	Saluki	8.315403e+17	12.500000	10.0	5220.333333	26667.333333	1.000000	0.523054	0.208351	0.118570
	English_springer	7.204467e+17	11.111111	10.0	4850.666667	13410.444444	1.000000	0.546486	0.200781	0.080672
	Afghan_hound	8.041621e+17	9.666667	10.0	4774.000000	14671.000000	1.000000	0.433959	0.099034	0.081650
	Tibetan_terrier	6.973258e+17	9.250000	10.0	386.000000	1393.333333	1.000000	0.408551	0.144144	0.069139
	Japanese_spaniel	6.773010e+17	5.000000	10.0	354.000000	1109.000000	1.000000	0.661178	0.150119	0.119720
	groenendael	6.939424e+17	10.000000	10.0	328.000000	1621.000000	1.000000	0.550796	0.154770	0.080802
	Brabancon_griffon	6.725689e+17	10.000000	10.0	227.333333	742.333333	1.333333	0.369981	0.247691	0.102877
	Sussex spaniel	7.151443e+17	11.000000	10.0	175.000000	579.000000	1.000000	0.379473	0.198698	0.139757



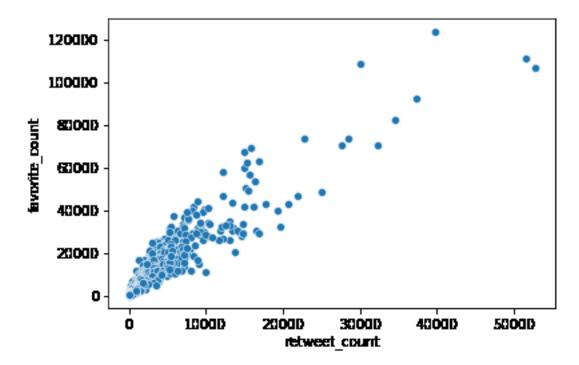
- 3) On average, the pupper dog stage received the least likes and retweets, despite being the most common dog stage.
- 4) The dog with the highest retweets is an Eskimo dog with 52,724 retweets. Photo shown below:



5) The dog with the highest likes is a Lakeland terrier with 123,717 likes. Photo shown below:



I then looked into whether there was any correlation between the retweet count and favourite count of my dataset. To this, there was a positive correlation of 0.965. This implies that there a likelihood that a tweet with a high retweet count, will also have a high favourite count. Although this does not mean that one causes the other.



The data that was used in my analysis and visualisation is from the 'twitter_archive_master.csv'.