

act report

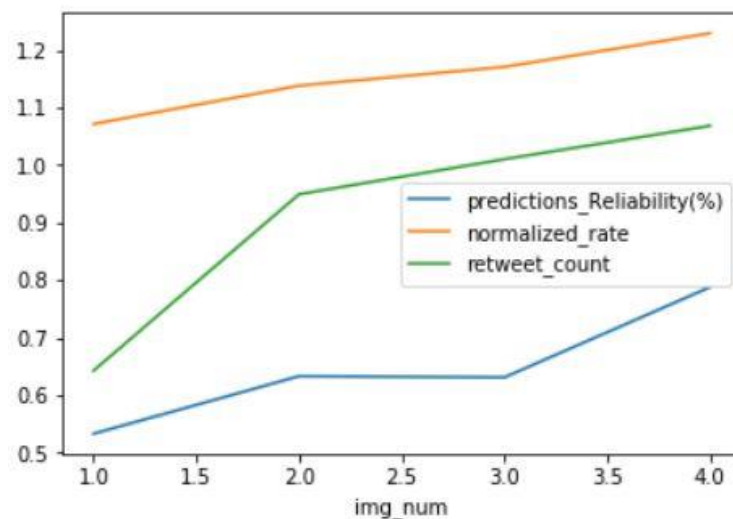
from the twitter_archive_master.csv clean data frame we found some interesting insights like:

1-using groupby (), mean () and plot () methods we were able to answer the question does number of images have any effect?

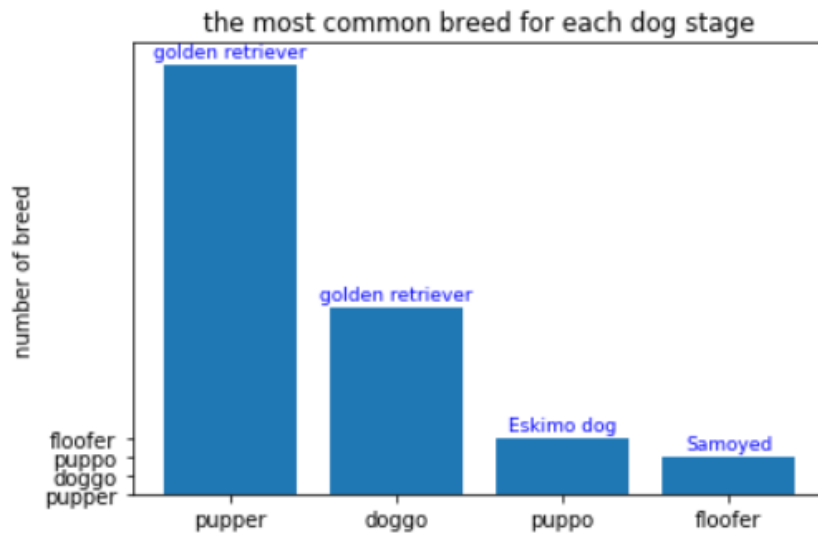
And the answer is yes, it has positive effect on retweets, favorites, predictions Reliability (%), rates as we see here

And we may say that's because when we see more of a dog, we love it even more!

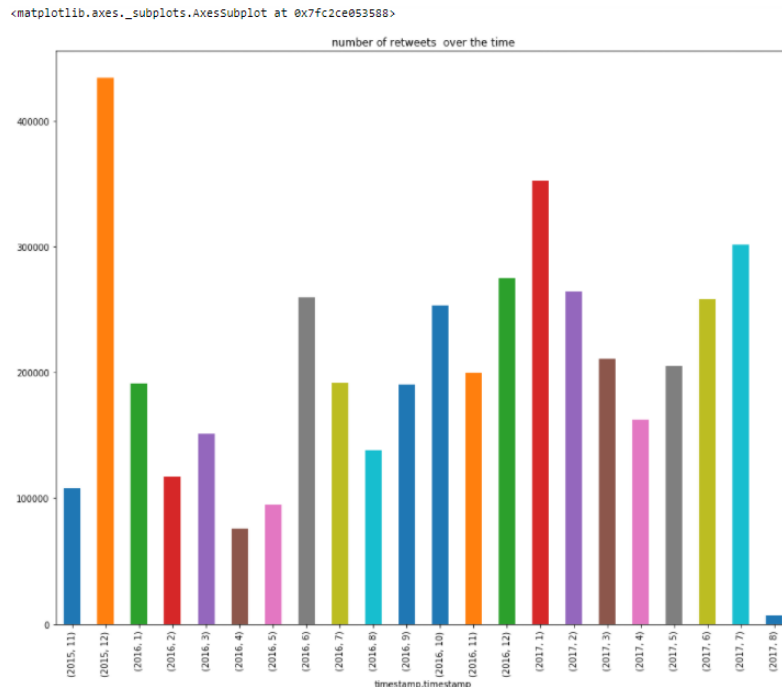
	retweet count	favorite count	predictions_Reliability (%)	normalized rate
img_num				
1	2570.011038	8355.264901	53.285995	1.071728
2	3798.164634	12536.341463	63.305786	1.138415
3	4042.153846	12791.307692	63.105681	1.171154
4	4274.407407	15059.888889	78.797520	1.229630



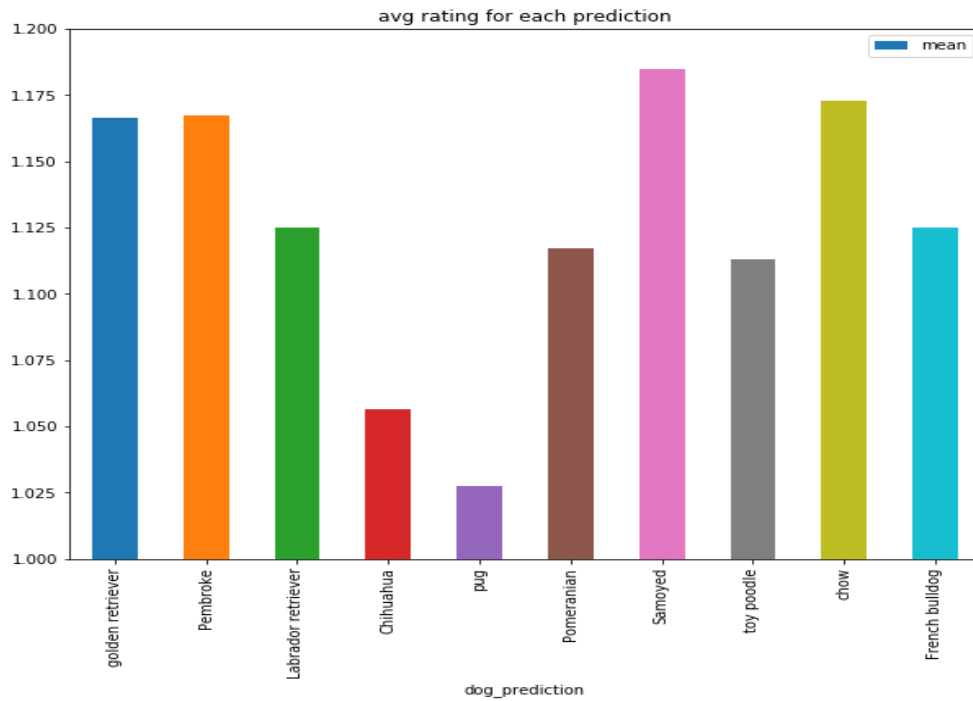
2- using matplotlib we also were able to explore the most common breed for each dog stage ('pupper', 'doggo', 'puppo', 'floofer') and they were



3- another insight was when people most interact with dogs, and we found that it was late in 2015, exactly in December 2015 the number of retweets was over 40000 retweet!



4- if the predictions Reliability is under 50% it's meaningless at some point, so if we filtered them, we would be able to find the mean of ratings for each dog prediction, and the highest on was **Samoyed**



The highest breeds were (with number of samples equal or higher than 20):

golden retriever 1.166518

Pembroke 1.167164

Labrador retriever 1.125000

Chihuahua 1.056522

Pug 1.027500

Pomeranian 1.117241

Samoyed 1.184615

toy poodle 1.113043

chow 1.172727

French bulldog 1.125000

5- which dog stage has the highest number of retweets on average?

dog_stage	
doggo, puppo	11483.500000
doggo	6811.122807
puppo	6252.923077
pupper, doggo	5225.333333
floofer	4968.714286
pupper	2384.609890

6- the breed with most retweets and favorites for the top 10 dog predictions

golden retriever	406578	1375623
Labrador retriever	268199	817090
Pembroke	249190	871599
Chihuahua	151148	424292
Samoyed	109065	308342
French bulldog	104639	379865
Pomeranian	79238	220281
Eskimo dog	70439	154332
toy poodle	69302	181882
pug	67632	214628