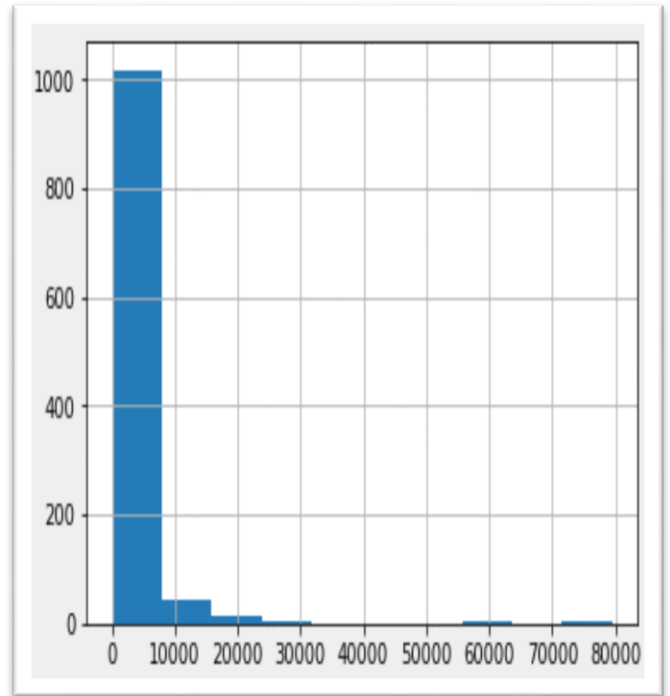
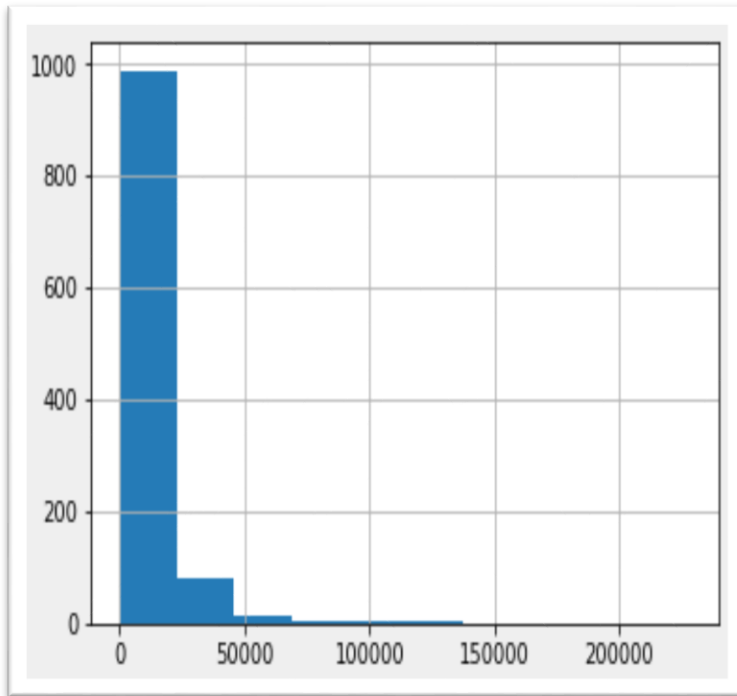


Communicating Insights and Visualizations

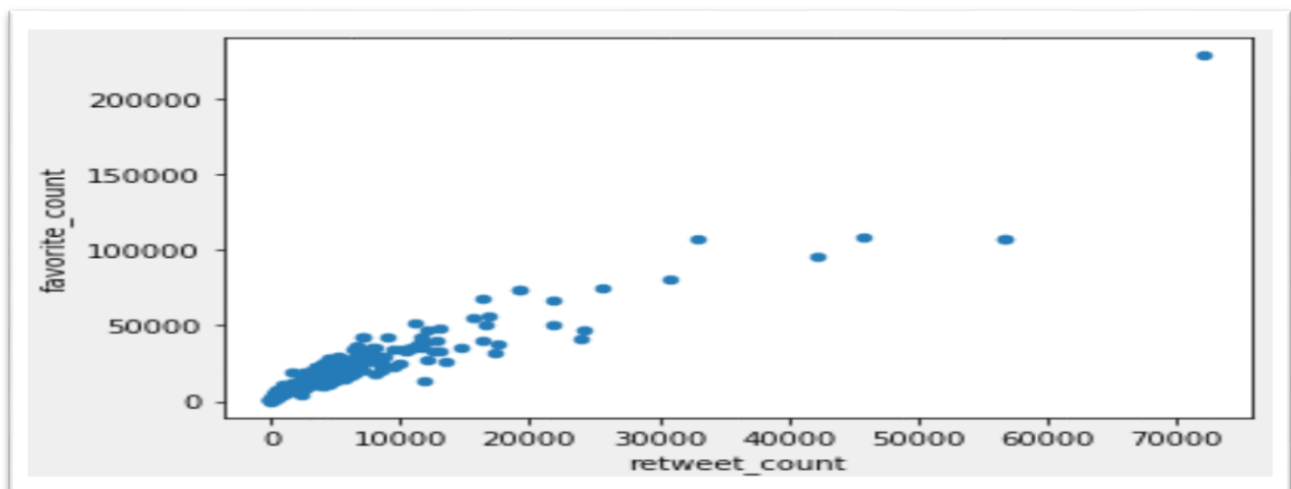
Retweet count and Favorite Count Distributions :

Looking at the distributions of these two variables on the histogram and on the box plot gives us an intuition about number of each of them. The retweet count mostly is between 0 and 5000. The favorite count also is between 0 and 5000. The figures below can tell this briefly.



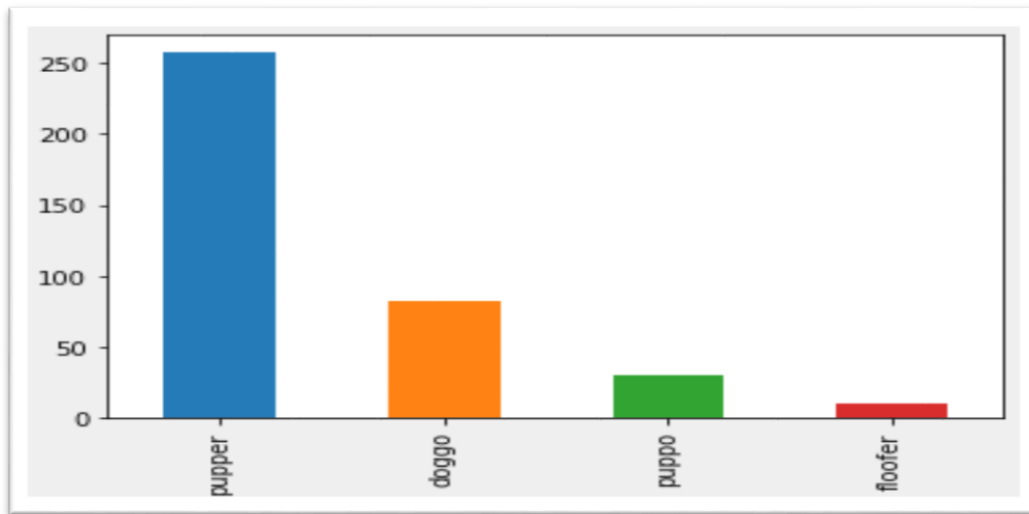
The relation between retweet count and favorite count :

These two variables are positively and strongly correlated and this can be obvious from the Pearson calculation (0.93) and the scatter plot. This makes sense because as the image or the tweet is better, the number of retweets and likes will be higher.



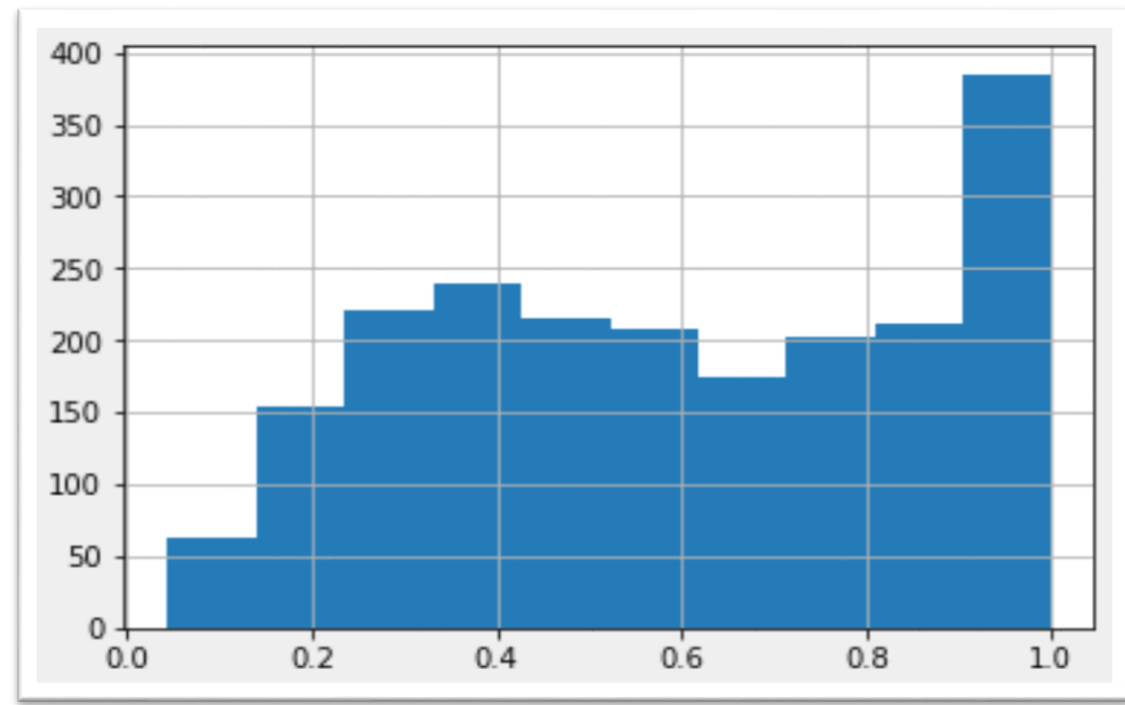
Number of different dog stages :

The pupper stage is the highest then doggo then puppo then floofer stage . This can be seen obviously in the next bar chart .



Neural network predictions :

The first prediction is confident but there are a lot of uncertainty for a lot of images. We can look at the histogram



We can see from the graph that there are about 60 images where the neural network was only confident by less than 10 % . And there are about 150 images with confidence of only 20%.The graph is still left skewed anyway. I think this network is a weak one or it needs more training. The performance of this network is less for other two predictions. It is

right-skewed for other two predictions. This makes sense because the first prediction is the one the network is more confident about. So, the confidence level is less for the other two predictions .