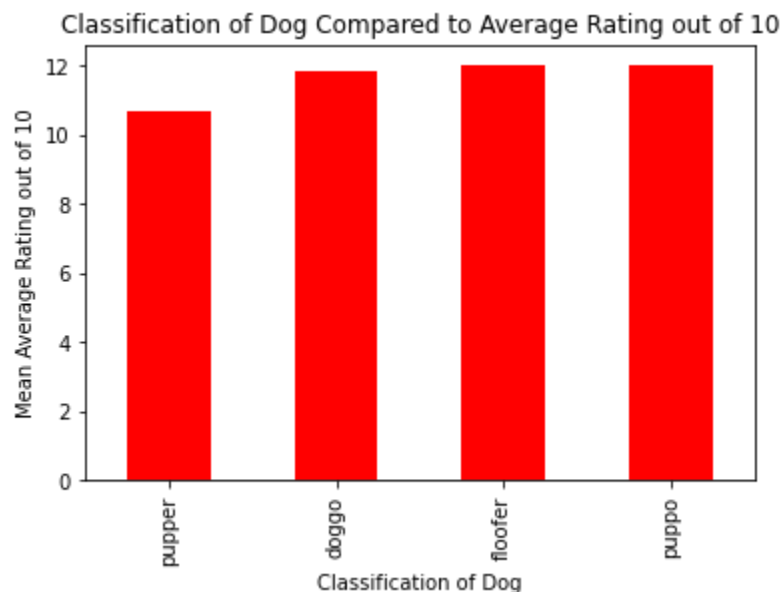# Insights

Does classification of dog associate with a higher rating?

The first insight that will be analyzed is if a certain dog rating is associated with a higher rating. Using the *twitter_master_archive.csv* file that was cleaned, two columns that were extracted from it are the *classification* column showing the three dog types associated with the age of the dog (*puppo, pupper, doggo, and floofer*) and the *rating_out_of_10* column. I will omit rows that contain null values or rows with multiple dog classifications. The following graph will illustrate the mean average rating compared to the classification of dogs.

As the graph illustrates, the lowest rating average is the pupper dog with a 10.71 rating while the highest is a tie between the puppo and floofer both with a rating of 12 out of 10. The doggo comes in behind those two with a 11.87 rating out of 10. What is astonishing is all four ratings exceed 10, which means the people that tweet on the WeRateDogs twitter account are more than likely dog lovers.

Using the three prediction models, what percentage did each model pick a breed of dog?

The second insight that will be analyzed is the percentage of each prediction that actually predicted a dog breed versus something else. The most accurate that actually predicted a breed of dog was the second prediction model, p2, with a 74.9% accuracy

rate. The least accurate model was the third prediction model, p3, was 72.4%. The primary model, p1, was 74.0%. Overall, for each of these models, it was accurate about three out of four times.

What was the most popular tweet_id out of the list in terms of favorite count and retweet count?

The last insight that will be analyzed is which tweet_id has the highest favorite count and retweet count. It seems that *tweet_id* 744234799360020481 has both the highest favorite count with 151946 and retweet count of 75130. The picture with a 82.5% p1 confidence rating is a Labrador Retriever. This is a picture from the *jpg_url* link. It is classified as a doggo, the name is unknown, and it isn't a floofer. The other two predictions thought this picture was an ice bear (4.4% confidence interval) or a Whippet (1.8% confidence interval). The timestamp that this was posted was June 18, 2016. The text describes that this doggo is standing in a pool.