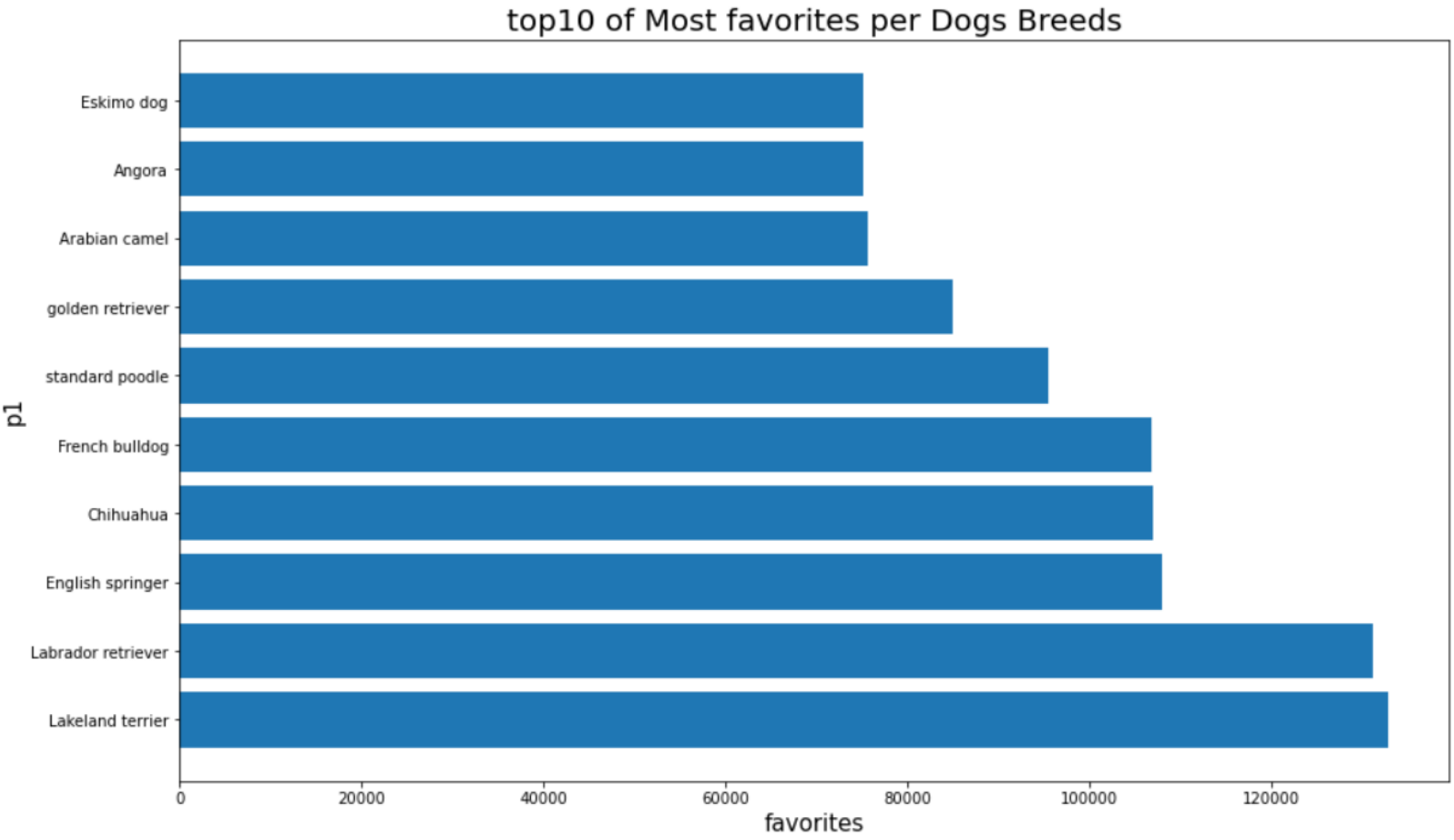
Analyzing and Visualizing Data:

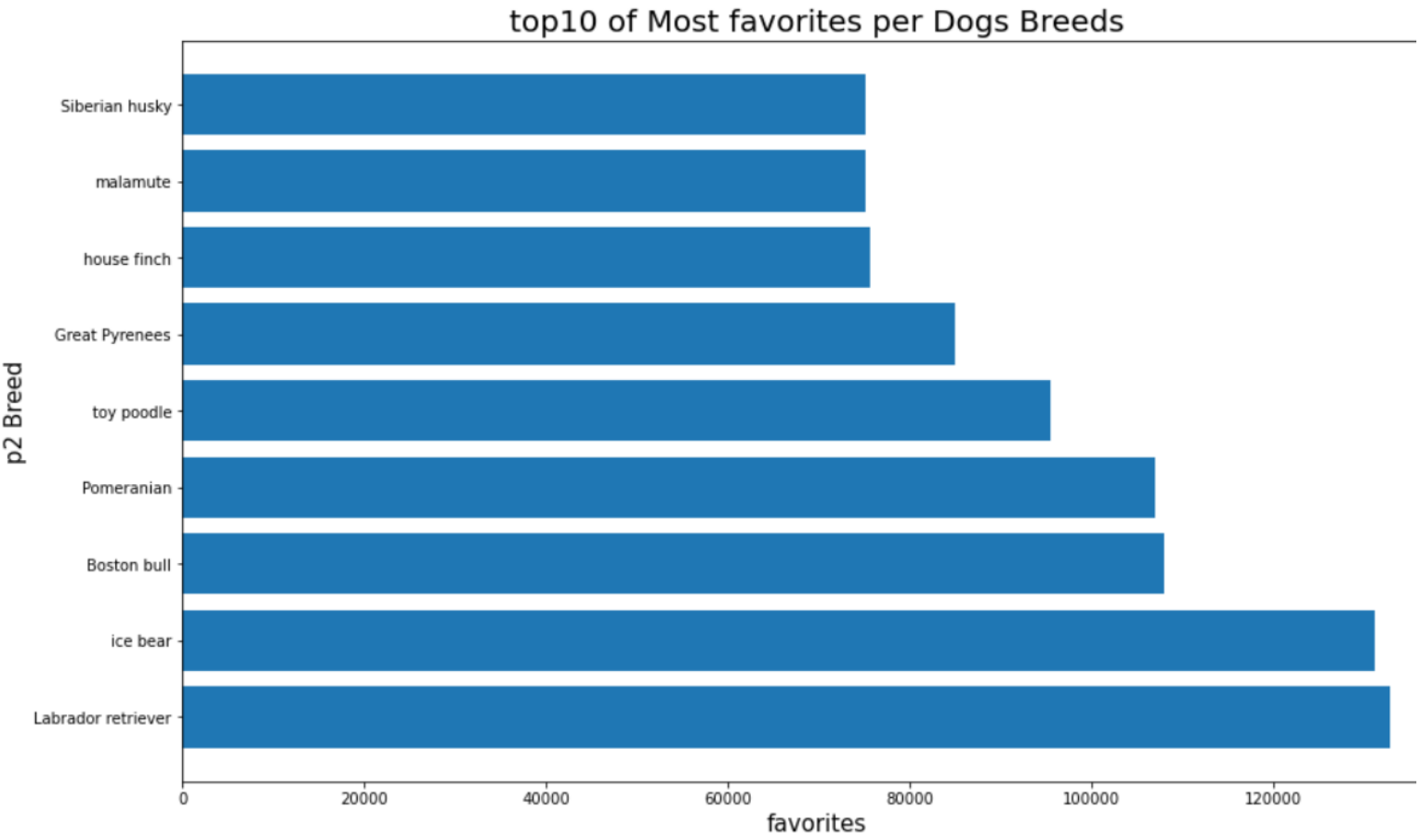
This is the last stage for this project, after we finished from the previous stages then what we need to do is present some of insights which is what we might need to know for the cleaned dataset and we need to visualize these insights by using python libraries, and for this project I used a simple visualization because it about wrangling the data not the visualization like project five, for these insights and visualizations:

Insight 1: What is the top10 dog breeds per favorites for each algorithm?

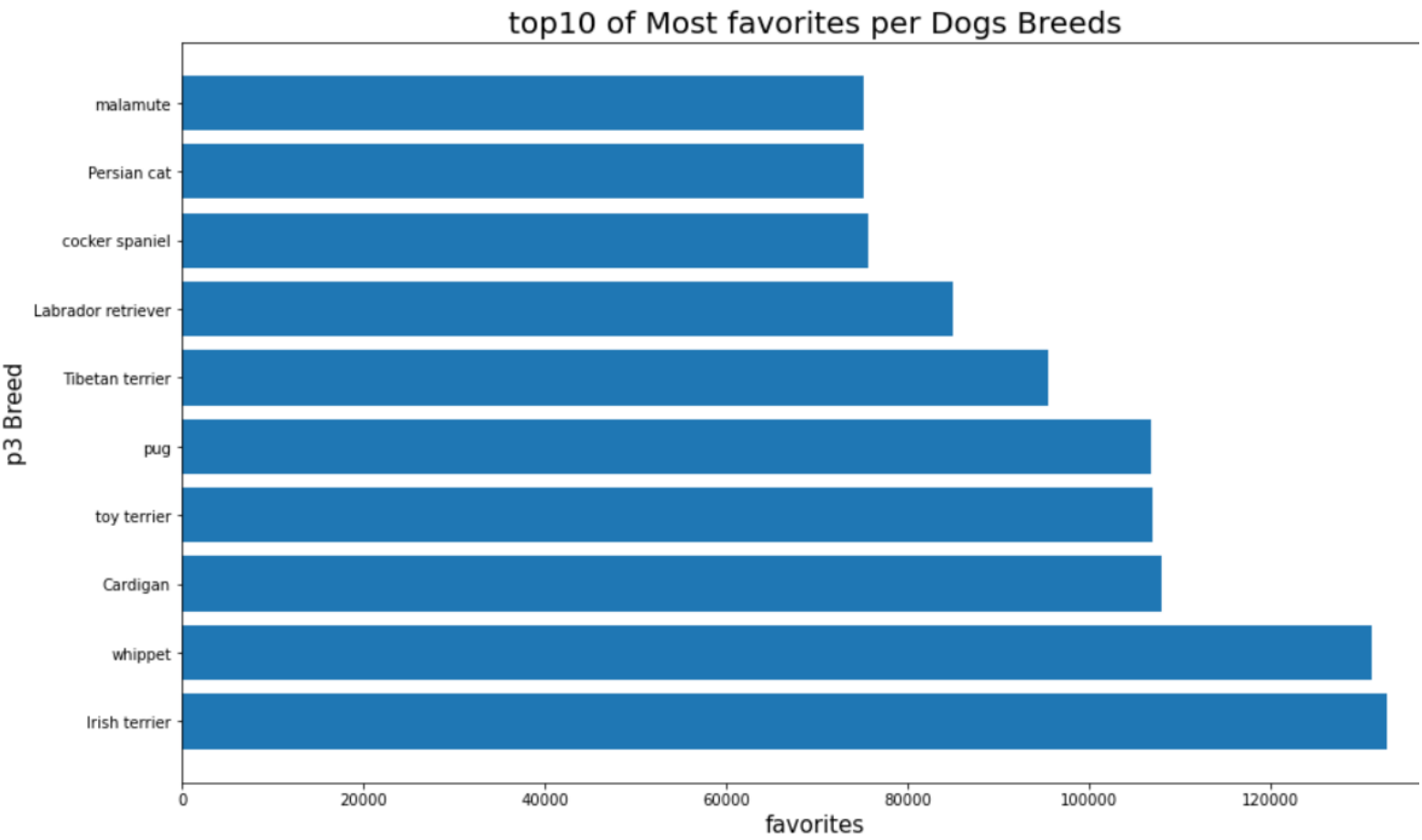
There is three algorithms that detect dogs breed based on the images, each algorithms has its own results on detecting dog breed and here's the visualization for these algorithms per favorites.



As we see for the first algorithm, the Lakeland terrier is the most favorites dog breed compare to the other dog breeds then Labrador retriever as second, but the algorithms also detect other things like the Arabian Camel for example because after assessing the data it shows that the three algorithms has some other animals except dogs but the goals is to detect dogs or not and the main results was for dog breeds like what was expected.

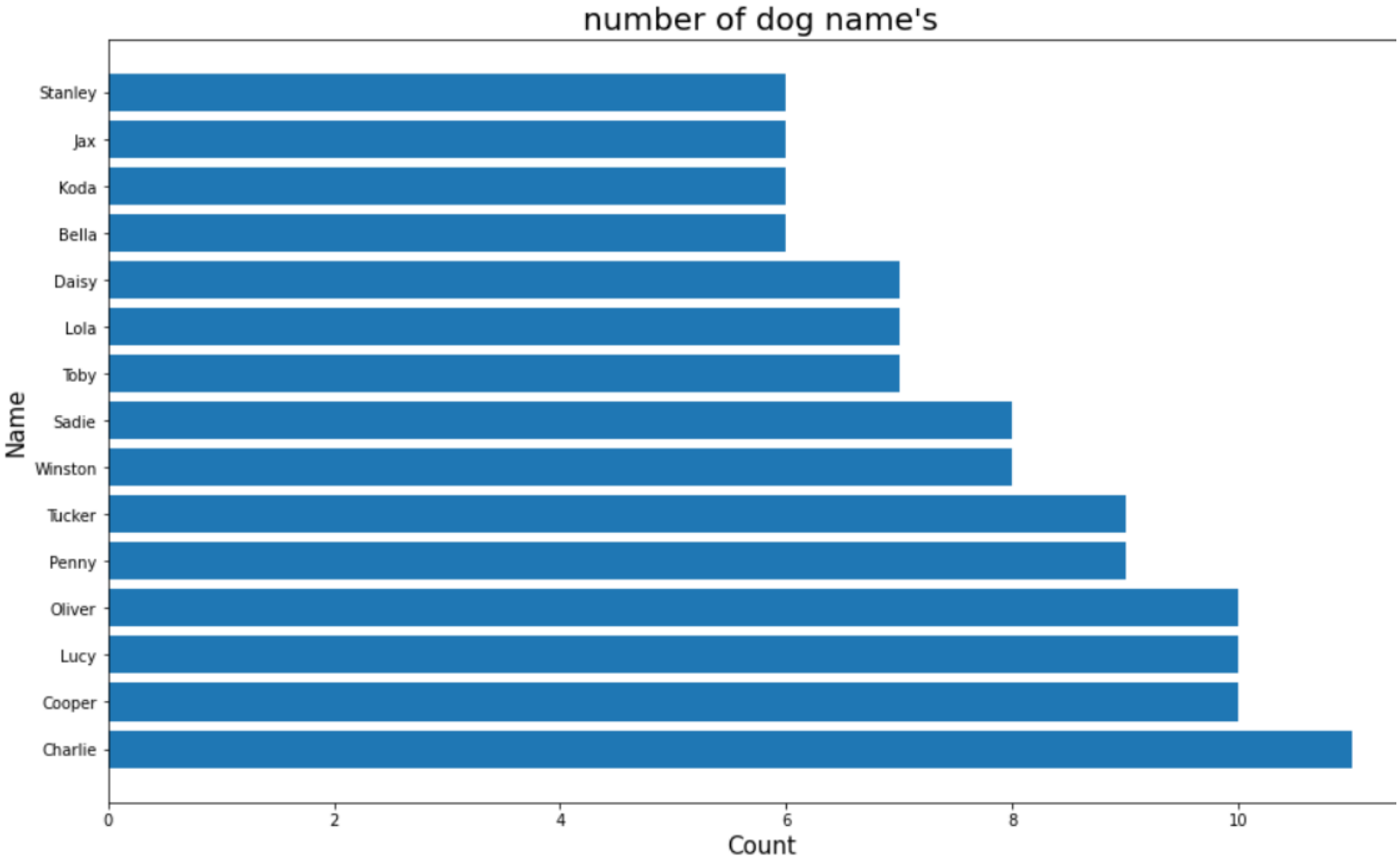


For the second algorithm, Labrador retriever got the most favorites, which was the second in the previous algorithm p1, also as we noticed there is ice bear which isn't considered as dog breed but the algorithm p2 managed to give a good result.



In addition, for the third algorithm p3, Irish terrier has the most favorites and it shows that it's more accurate than the previous two algorithms because it has less mistake for identifying the breeds of dogs.

Insight 2: What is the most common dog name for dogs?

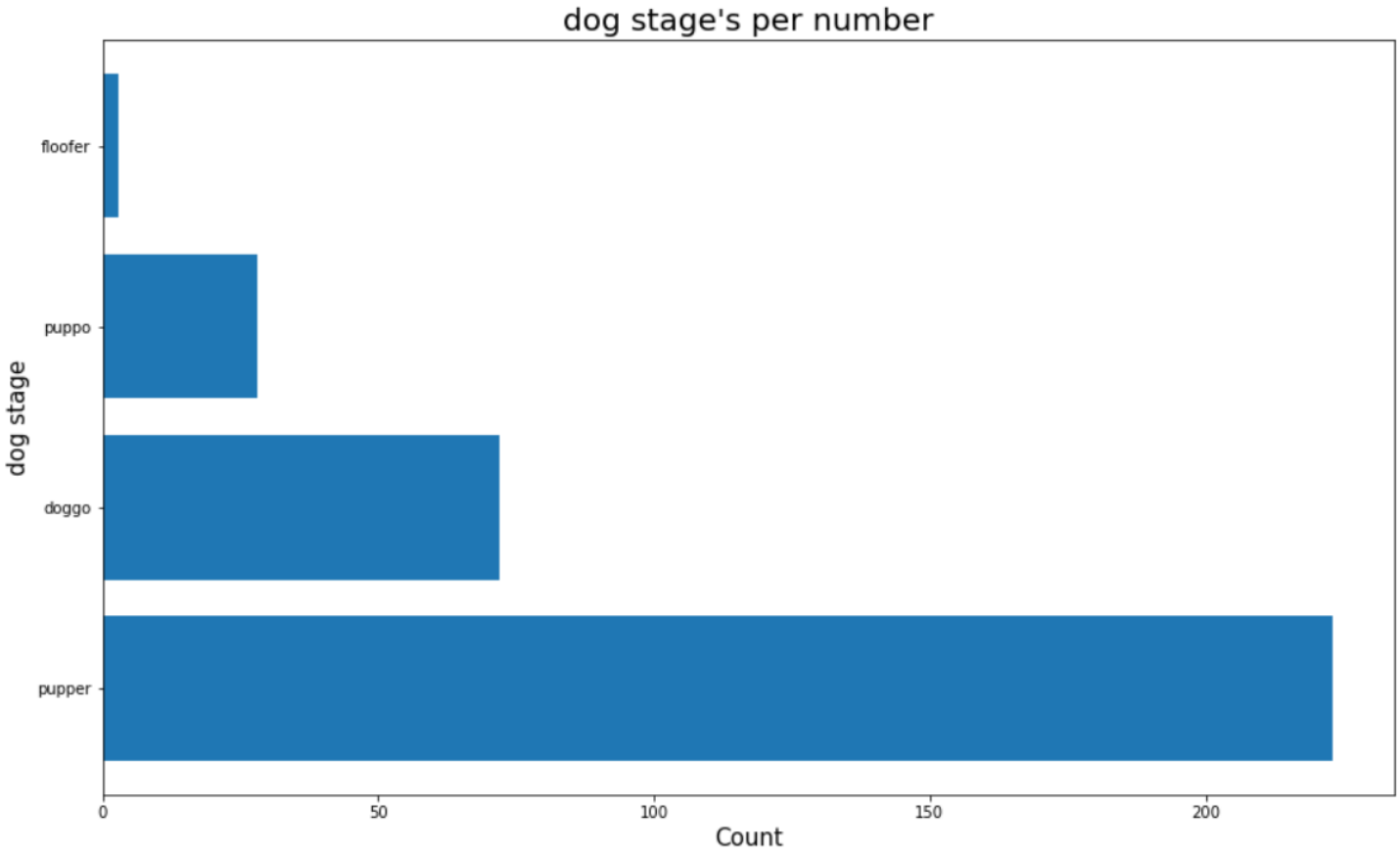


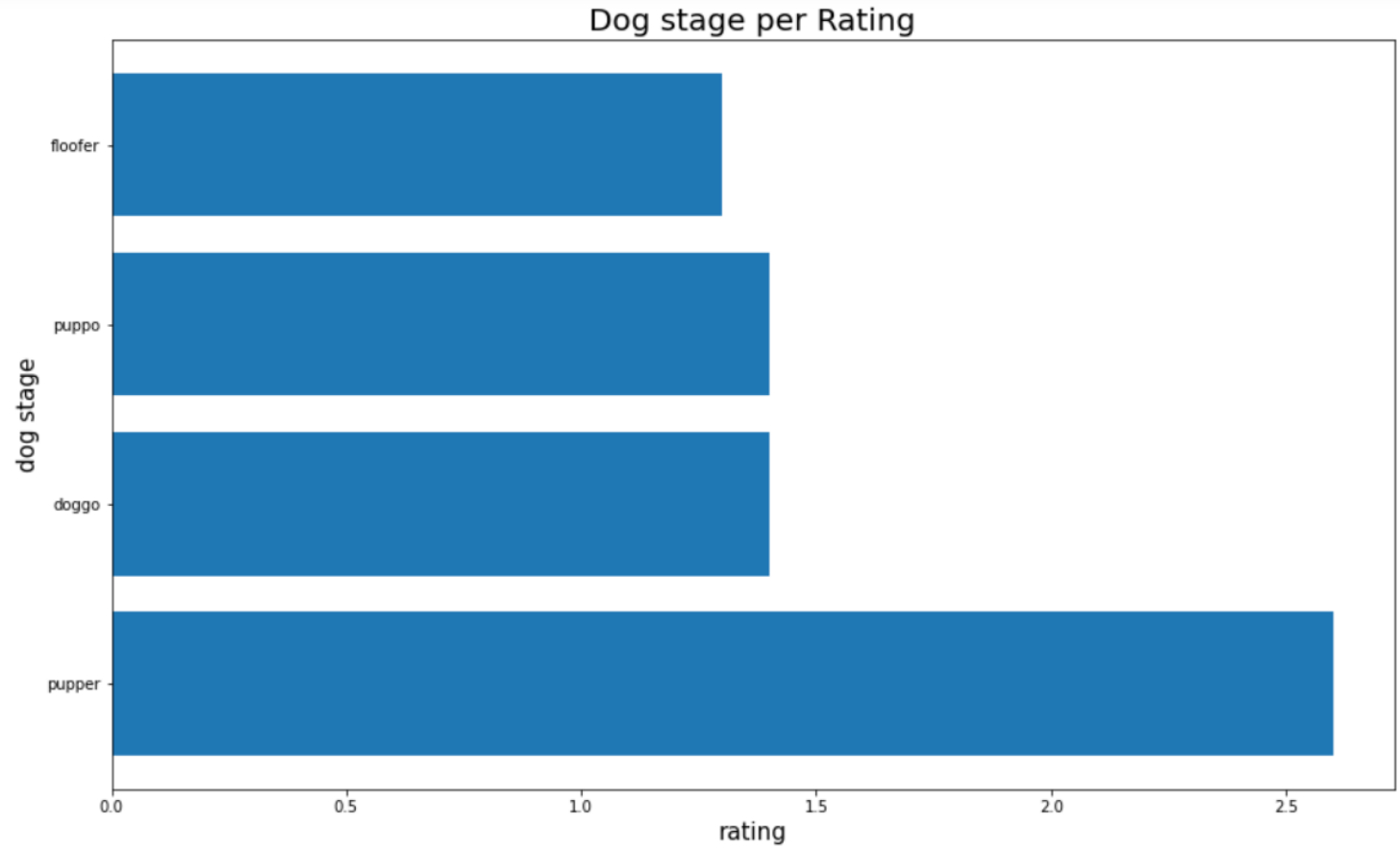
For this insight it shows the most common dog names by all the tweets, Charlie was the most common then behind it Cooper, Lucy and Oliver.

As we notice the numbers isn't high compare to a popular dog names like Charlie and Lucy and others, because not all the tweets mentioned the dogs name and there's a lot of NaN's at the dataset.

Insight 3: What is the most common dog stage?

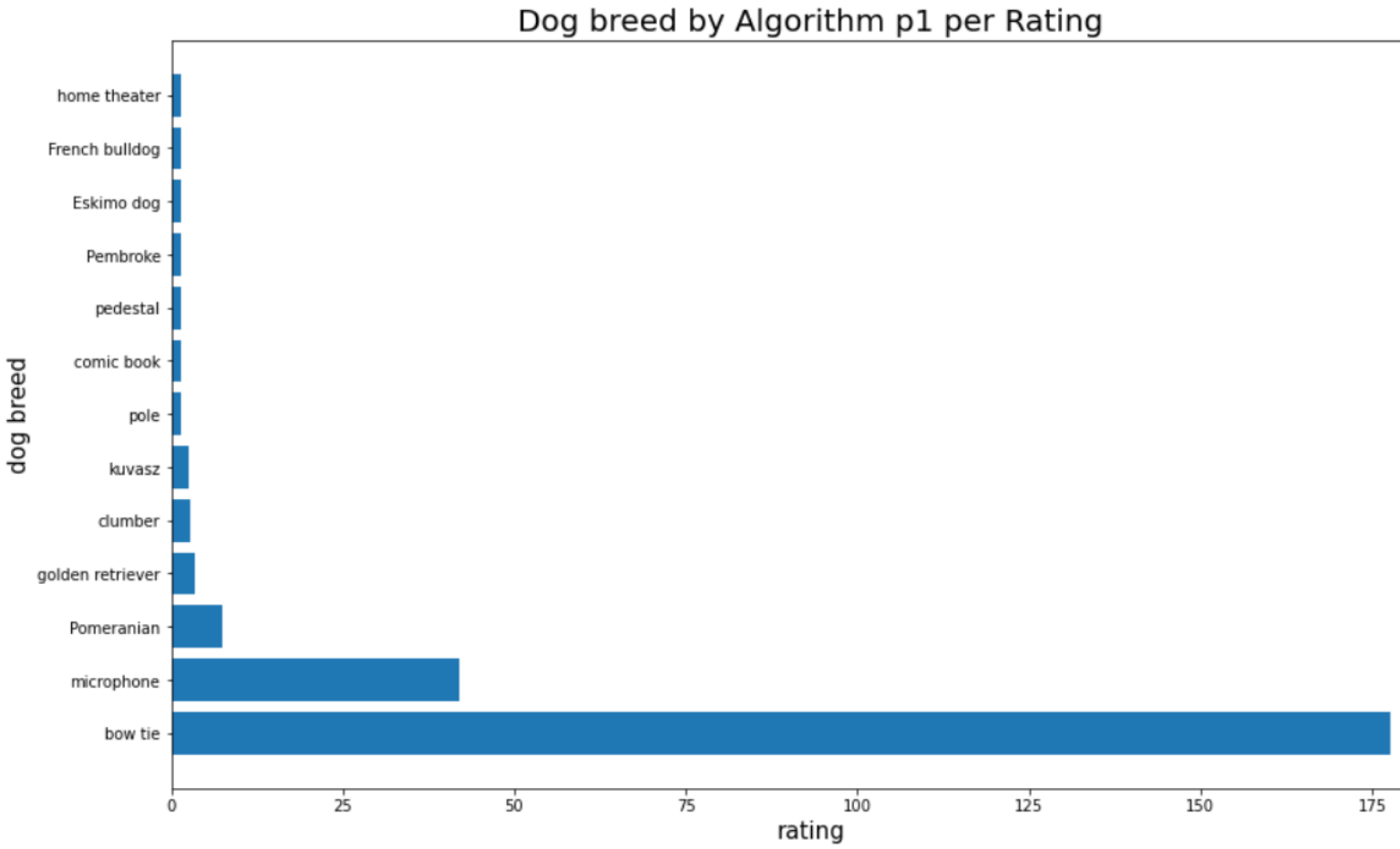
Insight 5: What is the highest rating for dog stages?



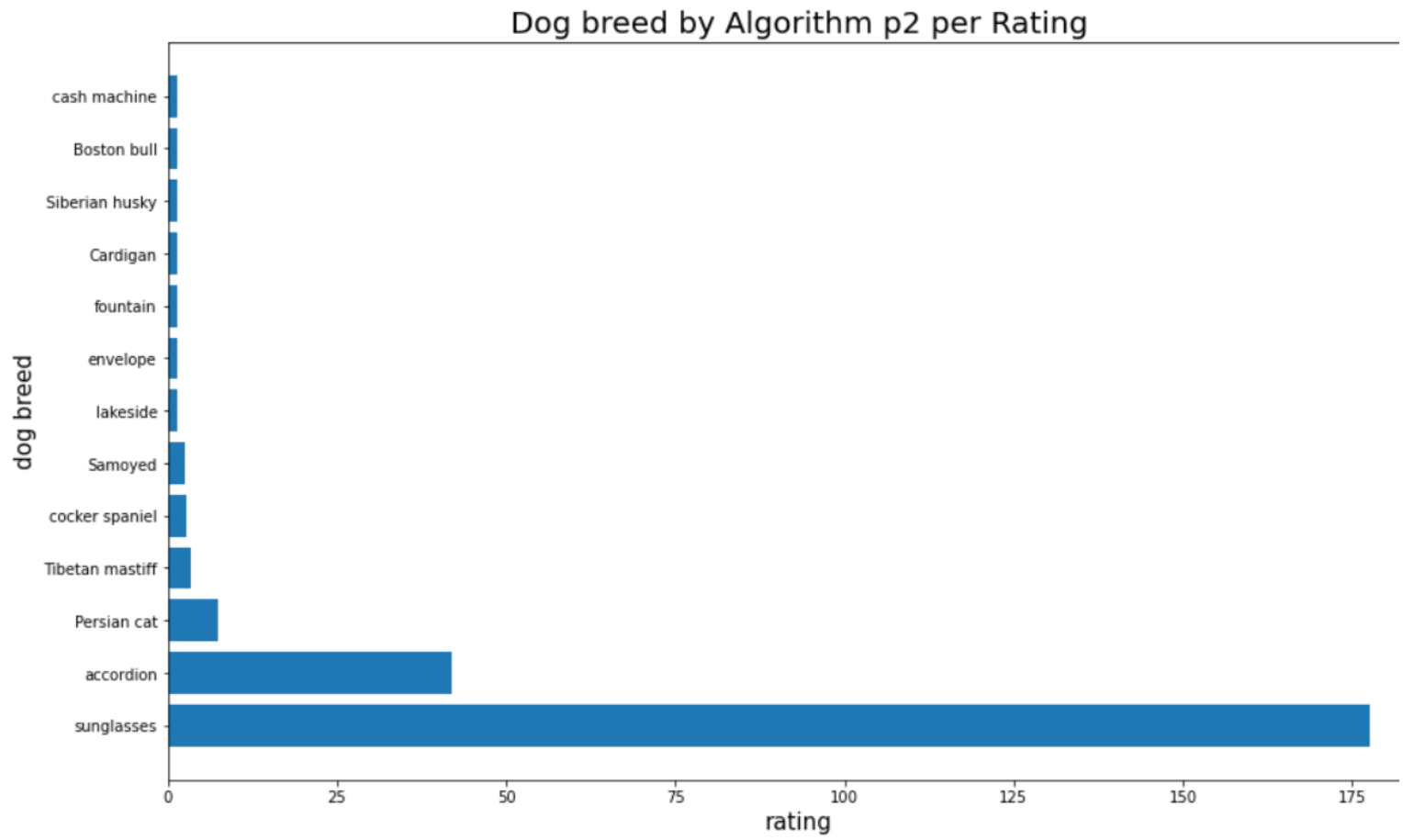


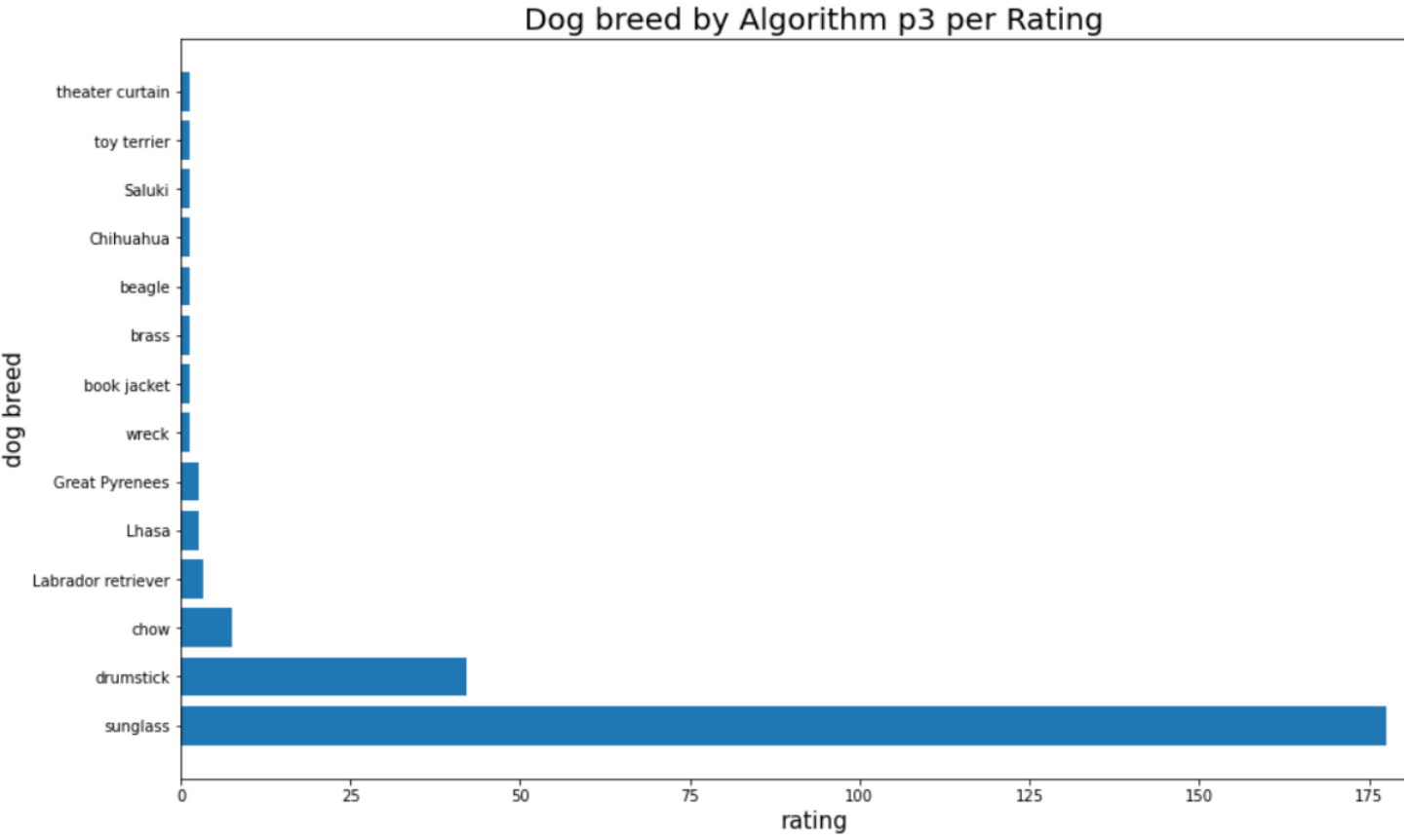
For insight three and five both focused in dog stages but one for the number of dog stages as the common one and the other one is which one has better rating and it seems puppor is the most common dog stage also it has the best rate more than the others, for Floofer it got the worst rating and it was least common dog stage.

Insight 4: what is the highest rating for dog breed for each of the three algorithms?



For this insight for p1 algorithm, the result might be confusing but the algorithm didn't detect the exact breeding type because of some editing or some items that put to the dogs like sunglasses or microphone so the algorithm used a new type nested of the usual dog breed, and it shows that the dog that wear bow tie got best rating more than the others.





For these two algorithms, it seems dog with sunglasses got the best rate.