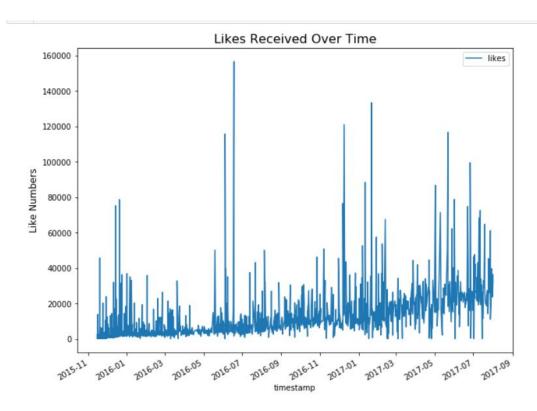
# **Data Wrangling Project - Act Report**

### Introduction

In this report, I will answer the following questions:

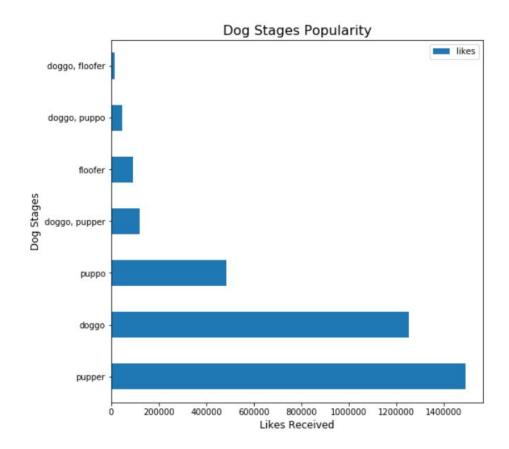
- 1. How WeRateDog's likes have increased over the last years?
- 2. Which dog stage is more popular by WeRateDogs?
- 3. Based on the image predictions, which breed is more popular by WeRateDogs?
- 4. Based on the image predictions, which breed is more popular by users?

#### 1. How WeRateDog's likes have increased over the last years?



Although some outliers can be observed in the time series above, there is a clear development on the number of likes received between 2015-2017. Observing this trend, it can be said that the account's followers have also increased over time.

#### 2. Which dog stage is more popular by WeRateDogs?



Although not every tweet has a dog stage information, with given sample, we could say that puppers are the most popular dog stage.

#### 3. Based on the image predictions, which breed is more popular by WeRateDogs?

```
1 master_data.dog_predictions.value_counts()
In [207]:
Out[207]: no prediction
                                          308
          golden_retriever
                                          139
          labrador_retriever
          pembroke
                                           88
          chihuahua
                                           79
                                           54
          pug
          chow
                                           41
                                           40
          samoyed
                                           38
          pomeranian
          toy_poodle
                                           29
          malamute
          cocker_spaniel
                                           27
          french_bulldog
                                           26
          chesapeake_bay_retriever
                                           23
          miniature_pinscher
                                           22
          siberian_husky
                                           20
          german_shepherd
          seat_belt
                                           20
          staffordshire_bullterrier
                                           19
          eskimo_dog
                                           18
          maltese_dog
                                           18
          shetland_sheepdog
                                           18
          shih-tzu
                                           17
          cardigan
                                           17
```

Based on the screenshot above, we could say that the top 10 dog breeds are:

- 1. Golden Retriever
- 2. Labrador Retriever
- 3. Pembroke
- 4. Chiuahua
- 5. Pug
- 6. Chow
- 7. Samoyed
- 8. Pomeranian
- 9. Toy poodle
- 10. Malamute

## 4. Based on the image predictions, which breed is more popular by users?

	likes
dog_predictions	
golden_retriever	1584012.0
labrador_retriever	993144.0
pembroke	932049.0
chihuahua	645696.0
samoyed	480979.0
french_bulldog	438383.0
chow	380630.0
pug	292623.0
cocker_spaniel	289094.0
pomeranian	285126.0

Here we group by dog breeds on like numbers. When we compare this table with breed counts (question 4), we can make 2 interesting interpretations:

- Although french bulldog and cocker spaniel breeds are not shared by WeDogRates tweets, they still managed to get in to top 10 most liked breeds.
- On the contrary, even though toy poodle and malamute breeds are