# WRANGLE REPORT

The dataset used for wrangling is the tweet archive of Twitter user <u>@dog rates</u>, also known as <u>WeRateDogs</u>. WeRateDogs is a Twitter account that rates people's dogs with a humorous comment about the dog. This archive contains basic tweet data (tweet ID, timestamp, text, etc.) for all 5000+ of their tweets as they stood on August 1, 2017.

### **Goals for the Project**

- ➤ Data Wrangling of the Twitter data which consists of:
  - 1. Gathering the data
  - 2. Assessing the data
  - 3. Cleaning the data
- > Storing, analysing, and visualizing your wrangled data
- > Reporting on data wrangling efforts and data analysis and visualizations

### **GATHER DATA**

- Twitter Archive Data: The WeRateDogs is a csv file that has information about the tweet\_id, ratings, dog type and dog stage etc.
- o **Image Predictions Data**: The tweet image predictions file is a tsv file which should be downloaded programmatically from the url given by udacity. It consists of predictions of what breed the dog is for each tweet.
- Tweet JSON file: The tweet's retweets and favourite count is gathered using Twitter API and python's Tweepy library.

#### **ASSESSING DATA**

The gathered data should be accessed programmatically and visually for quality and tidiness issues.

In this project, I will be assessing eight quality and 2 tidiness issues in wrangle\_act.ipynb file.

#### **CLEANING DATA**

### Twitter Archive data

- 1. Remove the retweets as we are interested only in original tweets.
- 2. Drop the unnecessary columns (in\_reply\_to\_status\_id, in\_reply\_to\_user\_id, retweeted\_status\_id, retweeted\_status\_user\_id, retweeted\_status\_timestamp)
- 3. Change the datatype of timestamp, rating\_numerator, rating\_denominator columns.
- 4. The name column in the table has incorrect dog names.
- 5. The rating\_numerator, rating\_denominator column has some incorrect ratings.

### **Image Predictions Data**

- 1. The column 'jpg\_url' has duplicate entries. Those should be dropped.
- 2. The columns p1, p2, p3 has inconsistent names. Change it to Title case.

3. The column names p1\_dog, p2\_dog, p3\_dog can be renamed to meaningful names.

# Tweet Json Data

1. The id column name should be changed to 'tweet\_id' for consistency.

# **TIDINESS ISSUES**

- 1. Merge the three dataframes with respect to the tweet\_id.
- 2. The different dog types column in the twitter archive data can be put into a single column.