

## **Reporting: wrangle\_report**

### **Gathering data**

Three different datasets were gathered:

- twitter\_archive\_enhanced.csv data which was downloaded manually
- image\_predictions.tsv data was downloaded programmatically using the url by udacity
- tweet\_json.txt data was also queried via the Twitter API using the tweepy library

### **Assessing Data**

All the three datasets were assessed visually and programmatically for quality and tidiness issues.

### **Quality issues**

- The column 'tweet\_id' is an integer.
- The 'rating\_denominator' column contains ratings more than 10.
- The 'rating\_numerator' column contains ratings more than 20.
- Names format is not consistent. some having starting with lowercase and others too with uppercase.
- The column 'name' contains 'None' instead of NaN and some values have unusual names character lengths.
- Not appropriate column name for 'text'.
- There are some duplicate values in the 'jpg\_url' column.
- The columns 'p1', 'p2', and 'p3' contains underscores instead of spaces in some of the values.
- The columns 'p1', 'p2', and 'p3' names are not descriptive and lowercase for some
- Retweets not needed for analysis.
- Some unused columns for analysis.

### **Tidiness Issues**

- All three different data frames should be in a single data set.
- There are four different columns (doggo, floofer, pupper, and puppo) for dog stages.

### **Cleaning Data**

First, all the three datasets were merged into a single dataset then using the various cleaning techniques the data was nicely cleaned.

### **Storing Data**

The data was stored was stored to a csv file, 'twitter\_archive\_master.csv'

### **Analysis and Visualizations**

A few insights and analysis were made on the cleaned and also visually the insights.