

## Wrangler Report:

### 1. Gather :

We Gather Data Via 3 Methods.

- Downloading twitter\_archived\_enhanced.csv from udacity project page.
- Programitically hitting the site and downloading image\_predictions.tsv from the link provide in Udacity Project.
- Programitically hitting API and getting the info like retweets count and favorites count.

### 2. Assessing

#### Quality issue

- In df\_twitter dataframe, columns like (in\_reply\_to\_status\_id, in\_reply\_to\_user\_id, retweeted\_status\_id, retweeted\_status\_user\_id, retweeted\_status\_timestamp) contains mostly null value and cannot be used for analysis.
- In df\_images dataframe, img\_num column is not required.
- Time stamp data type is object instead as date time.
- Few names are mention as article 'a', 'the', 'an'
- rating\_denominator column for one of the record is '0' which is i am assuming is because of some error.
- Count of tweeter id in all the dataset is different.
- Numerator and denominator rating are not correct.

#### Tideness Issue

- Doggo, floofer, pupper, puppo is used as columns.
- There is 2 columns rating\_numerator and rating\_denominator which can be merged as 'rating' instead.
- The columns for dog breed predictions can be condensed.
- df\_images and df\_tweets, df\_twitter can be merged into one dataset.

### 3. Cleaning:

- Issue 1: Timestamp column has data type as object(string)  
Define: Change data type as 'time\_stamp'

- Issue 2: Incorrect names like name as 'a','an','the' etc  
Define: replace incorrect name with None
- Issue 3: rating\_denominator and rating denominator value are incorrect  
Define: programitically replaces the correct value.
- Issue 4: Condesing stages of dog.  
Define : Created a stage row in df\_twitter dataframe.
- Issue 5: Inncorrect data type for stage column  
Define: Convert object data type to categorical data type.
- Issue 6: There is 2 columns rating\_numerator and rating\_denominator which can be merged as 'rating' instead  
Define created a new columns called rating whose value will be rating\_numerator/rating\_denominator.
- Issue 7: Remove unnecessary row like 'text','url' etc  
Define : Drop the column from data frame.
- Issue 8: merge p\_conf and p to find the breed of dog  
Define : Create a column for breed of dog and store a value using confidence interval.
- Issue 9: convert breed to categorical variable.  
Define: Convert object data type to categorical data type.
- Issue 10: multiple data frame  
Define: Merge all 3 data frame and create in df\_clean.

Stored the data in twitter\_archive\_master.csv after processing.