# Wrangle Report

## The Gathering Process

The data for this project was provided by different sources. Each source required a different method to obtain the data

- By the Twitter API
- · downloading the Data from an external server in the tsv format
- importing the data from a provided csv file

# Description of the data scources

### 1. Enhanced Twitter Archive

This dataset was initially provided by Udecity and provided a baseline for my analysis as it contained 5000+ data entries with a Tweet ID and other meta information.

#### 2. Twitter API

To obtain the retwwet count and favorit count for each tweet, a script was used to fetch the information from Twitter. The script used my private Twitter account in combination with the Developer account to fetch the data with the Tweepy libary and store the results as a JSON file.

## 3. Image Prediction Dataset

The Image Prediction Dataset was a collection of results created by a ML model which had classified each dog in the picture by breed. It was programatically downloaded from the Udecity server and was in the tsv format.

## **Quality Issues**

- Twitter Archive Enhanced Dataframe
  - Drop retweeted\_status\_id , in\_reply\_to\_user\_id ,
    retweeted\_status\_id and retweeted\_status\_user\_id
  - source colum should be categorical
  - timestamp colum should be renamed archive\_timestamp
- Image Prediction Dataframe
  - rows there no Dog can be identified because \*\_dog was false should be droped

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p1, p2 and p3 should be categorical as well as the colums should be descriptiv

- the confidence level p1\_conf, p2\_conf and p3\_conf should be mearged together
- colums \*\_dog should be merged
- Tweets Json Dataframe
  - Drop Colums like id\_str and any other \*\_str column
  - Cast created\_at as a datetime object instead of string

### **Tidiness Issues**

- In the image\_prediction Dataframe we should drop <a href="img\_num">img\_num</a> dataframe after everything else was merged
- all the Dataframes (Twitter Archive, Twitter Json, Image Prediction) should be merged for easy analisys
- merge the doggo, floofer, pupper and puppo colums together

### Conclusion

overall this project helped me working with different structures and methods regarding data wrangling. I overcome a lot of challanges fixing and cleaning the data as well as beeing able to identify quallity issues and tidiness issues programaticaly