# **Wrangle Report**

### Introduction

In this project I used twitter API to access tweets from a twitter account called WeRateDogs, this account posts images of doges and rates them, I collected a random dataset of 2000 tweets, the WeRateDogs Twitter archive from Udacity, and the tweet image predictions from Udacity's servers. Then I started cleaning and analyzing them.

## Gathering

- The first dataset: I import [twitter archive enhanced.csv] to Jupiter notebook and read it using pandas.
- The second dataset: it was an online file saving in Udacity's servers so I used requests library to download it then I used pandas to read it.
- The third dataset : I use tweeter API to gather the data and save it to [tweet\_json.txt] file.

## Assessing

In this section I tried to explore each dataset to find the issues that needs to be fixed. And I found these :

### A. Quality

- Missing value in dog name and stages
- duplicated tweet\_id
- missing dogs' names
- Incorrect dogs' names
- Some tweets does not contain a rating
- Incorrect datatypes
- Tweets with no images

#### • Extra characters after the symbol &

- Some columns like (in\_reply\_to\_status\_id, in\_reply\_to\_user\_id, retweeted\_status\_id) are missing too many values and might not be needed in this analysis
  - Null value define as None
  - Some of rating denominator is greater than 10

#### **B.** Tidiness

- There are 4 columns (doggo, floofer, pupper, puppo) for dogs' stages
- 3 Data frame

## Cleaning

I choose some of the issues which I found while assessing the datasets and I fixed them as follows:

### A. In quality part

- I drop missing value in the dogs' names and stages, duplicated tweet\_id, tweets that
  does not contain ratings, tweets with no images, and columns that I do not need in
  analysis.
  - I deleted extra characters after the symbol & by using (str.replace) function.
  - I corrected null values that define as none to Nan .

### B. In tidiness part

- ullet I created new columns [dog\_stage] and merge ( puppo, pupper, floofer, doggo ) with it using join() function then I deleted unnecessary columns.
  - I merged the 3 datasets using merge() function.

## Conclusion

After finishing cleaning I stored the cleaned file as an csv file and started the analysis part.