# Wrangle report

The dataset that wrangles, analyzed and visualized is the tweet archive of Twitter user @dog\_rates, also known as WeRateDogs. WeRateDogs is a Twitter account that rates people's dogs with a humorous comment about the dog." WeRateDogs has over 4 million followers and has received international media coverage.

The wrangling process took place in main three steps:

- 1. Gather data
- 2. Assess data
- 3. Clean data

## The gather steps

It was conducted to collect the data from

- Twitter API by a developer account and python teetpy library
- the WeRateDogs Twitter archive, which was given by Udacity as a on-hand file.
- Dog's images predictions, i.e., what breed of dog (or other object, animal, etc.) was present in each tweet according to a neural network. This file was hosted on Udacity's servers and should be downloaded programmatically using the Requests library.

### The Assess steps

It was conducted manually and programmatically, and the quality and tidiness issues found was:

#### 1. Quality issues

#### Image Prediction data

- There is duplicates in column image url
- Upper case letters in columns p1, p2, p3

#### Twiter API data

- Unnecessary columns for analysis: id\_srt, in\_reply\_to\_status\_id,
  in\_reply\_to\_status\_id\_str, in\_reply\_to\_user\_id, in\_reply\_to\_user\_id\_str,
  in\_reply\_to\_screen\_name, entities, truncated, user
- Null columns: coordinates, place, contributors, is\_quote\_status
- created at should be timestamp
- id should be tweet id for coherency
- 'lang' column should be category datatype

#### Twitter Archive data

- No need for columns of retweet info. and text and replies
- timestamp column is date not string
- Doges names missing and wrong like "a", "very"

#### 2. Tidiness issues

• The dogs breed should be in one column

twitter data in the three dataframes separated

## The Clean steps

The cleaning steps was showed in the format of Udacity course as

- **Define** the cleaning act
- **Code** to solve the problem
- **Test** if the code works

In order to clean the previous mentioned issues in the data the below steps were taken:

- o Remove all duplicates from image url column
- Transform all the columns instances into lowercase data
- o Drop all unnecessry columns
- o Remove null columns as it have the same instance
- Change created\_at to timestamp for consistency of entities
- o Change id column name to tweet id for coherency
- o Change lang column to be category datatype
- o Remove columns of rewteet info. and text
- o Change timestamp column from string datatype tp date
- Remove corrupted names
- o make one column with dogs breed only
- o Merge the three dataframes