We Rate Dogs

Report1

Introduction

In this project we will go through data wrangling process on gathering, assessing, and cleaning the data

The wrangling processes

We have a three steps in data wrangling process:

- 1-Gathering
- 2-Assessing
- 3-Cleaning

Step 1: Gathering:

In this process we will try to gather the data from multiple sources and in this project, we gather three dataset

1-Archive twitter: I download it the regular way and read it straight for it

2-Image predication: I download programmatically using the Request library

3-Tweet json: I used the file provided from Udacity because the twitter took to long to replay to me

Step 2: Assessing

Quality issue:

- 1-Time stamp is object instead of timestamp
- 2-Tweet_id is int instead of string in the three datasets
- 3-missing data in expanded_urls
- 4-some of the names is just typed wrong like 'a' or 'none' or 'this'
- 5-dosen't benefit our analysis like (,in_reply_to_status_id , in_reply_to_user_id , retweeted_status_id ,etc...)
- 6-worng data in the rating numerator like (id tweet is 832215909146226688,...) the rating is 75 but the actual rating is 9.75
- 7-the rating numerator is int instead of float
- 8-The tweet_id (832215909146226688 and 786709082849828864) have duplicate value for the same dog
- 9- the names of column not clear EX(img_num,p1,p1_conf,p1_dog,p2,p2_conf,p2_dog,p3,p3_conf,p3_dog)
- 10- the p1,p2,p3 should start with the first letter capital
- 11- "jpg_ur" information that don't benefit any thing to our analysis, so we don't need it

Tidiness issue:

- 1-the doggo, floofer ,pupper and puppo should be in one columns
- 2-the three tables need to be merged

Step 3 : Cleaning

In this step after we gathered and assess the datasets, we will try to solve these problems

Quality issues:

- 1-convert the Tweet_id column data type from int to a string using .astype method
- 2-convert the timestamp from string to a timestamp by using .to_datetime method by pandas
- **3**-the expanded url is missing and we need to check the data, after checking the missing URLs we found that most of these url either a retweet tweet or a replay to some one tweet so we will use the **.drop** method
- 4-change the odd name we found to nan like (none, a, this) by replacing them and using .replace method
- **5**-dosen't benefit our analysis ex(in_reply_to_status_id , in_reply_to_user_id , retweeted_status_id
- ,retweeted_status_user_id and retweeted_status_timestamp) so we will use the .drop
- **6-** wrong rating numerator ex: for the dog Logan(id tweet is 832215909146226688) the rating is 75 but the actual rating is 9.75 so we will fix the rating numerator
- **7**-convert the rating_numerator column data type from int to a float using .astype method

Continue...

8-The tweet_id (832215909146226688 and 786709082849828864) have duplicate valuesame dog we have to tweet with a duplicate value for the same dog "logan" so we will drop the (tweet_id=786709082849828864) i choosed this id because the other id we just fixed the rating numerator value for them

9-the names of column not clear EX(img_num,p1,p1_conf,p1_dog,p2,p2_conf,p2_dog,p3,p3_conf,p3_dog) we will change the names of the column in image prediction (img_num,p1,p1_conf,p1_dog,p2,p2_conf,p2_dog,p3,p3_conf,p3_dog) to be clearer (readable) by using the method **.rename** method

10-the (p1,p2,p3) should be start with a capital letter by using .str.title

11-jpg_ur" information that don't benefit any thing to our analysis, so we don't need it the jpg_url is not necessary in our analysis so we will get rid of it by using the .drop method

Tidiness:

1-the last four columns should be in one column by so we will replacing the none to empty and creating a dog_stage andmerging the four column and after adding them we will use the drop 4 coulmns

2-we will merge the three tables into one on tweet_id by using the '.merge' method