WRANGLING REPORT



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INTRODUCTION

This project contains the wrangling and analysis or Archived chats of Twitter. The dataset that I will be wrangling (and analyzing and visualizing) 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. These ratings almost always have a denominator of 10. The numerators, though? Almost always greater than 10. 11/10, 12/10, 13/10, etc. Why? Because "they're good dogs Brent." WeRateDogs has over 6 million followers and has received international media coverage.

The Analysis of my visualisation can be found in the **act_report** file.

DATA GATHERING

Data is successfully gathered From at least the three different sources and in three differ ent file formats on the Project Details page.

- Each piece of data is stored into a separate pandas DataFrame.

Following work has been done during gathering data:

The data for this project consist on three different dataset that were obtained as follo

ow	ing:
	Twitter archive file: The twitter_archive_enhanced.csv was provided by Udacity
	and downloaded manually.
	The tweet image predictions,: The file image_predictions.tsv was hosted on
	Udacity's servers and was downloaded programmatically using the Requests
	library and URL information
	Twitter API & JSON: Using the tweet IDs, keys and Tokens in the WeRateDogs
	Twitter archive, I queried the Twitter API for each tweet's JSON data using
	Python's Tweepy library and stored the JSON data in a file called tweet_json.txt
	file. I read this .txt file into a pandas dataframe with tweet ID, favorite count,
	retweet count, followers count, friends count, source, retweeted status and url.

DATA ASSESING:

Once the three tables were obtained I assessed the data as following:

- Visually, I used two tools. One was by printing the three entire dataframes separate in Jupyter Notebook and two by checking the csv file0s in Excel.
- ☐ After the data was gathered, assessment was performed Programmatically, by using different methods
 - o .head()
 - o .sample()
 - o .info()
 - o .value_counts()
- ☐ Then I separated the issues encountered in quality issues and tidiness issues. Key points to keep in mind for this process was that original ratings with images Were wanted.

Tidiness Issue.

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	Combining all dataframes together as the same tweets	y all	contained info	rmation about the			
	☐ Combining 4 variables about dog type into 1 column "dog_stage"						
Quality Issue:							
	Data contained retweets						
	Tweet id was the incorrect data type						
	□ Name contained the string "None" instead of a NaN						
	Rating numerators which contained decimals were incorrected exported						
	Ratings are unstandardized						
	Undesired columns present						
DATA	CLEANING						
	First and very helpful step was to create a	cop	y of the three o	original dataframes. I			
	wrote the codes to manipulate the copies.		-	J			
	There were a couple of cleaning steps that	wer	e very challeng	ging. One of them was			
	in the image prediction table.						
	Other cleaning code was to melt the dog			umn instead of four			
_	columns as original presented in twitter a						
	One very challenging cleaning step was v						
	that were actual decimals. This issue was						
	Udacity review. Using Excel and visual a those decimals. Therefore, I had to run a co						
	(decimals numerators).	Jue II	ii oi dei to chec	K tiiose actual tweets			
	I used following methods/functions of pythogenerated and the second seco	thon	libraries for da	ata cleaning			
	1 merge(), 2 reduce(), 3 .extract(), 4 .dr						
	7to_datetime(), 8 .islower(), 9 .replace()						
	12 .loc[], 13 value_counts(), 14 .info(
expres), 1	ineda(), 10	noops, 17 Regular			
CONCLUSION							
	Data wrangling is a core skill that whoever handles data should be familiar with. I used						

Python and its some Libraries. The advantages of this tool:

- For gathering data there are several packages that help scraping data off the web, that help using APIs to collect data (Tweepy for Twitter) or to communicate with SQL databases.
- It is strong in dealing with huge data (compared to Excel). It can also deal with a large variety of unstructured data like JSON or structured data like ERP/SQL databases.