Project Name:

WeRateDogs Wrangle and Analyse Data.

Project Motivation:

Wrangle Provided WeRateDogs Twitter data and using techniques for gathering, assessing and cleaning data to be able to provide analysis, insights and visualizations about the cleaned data.

What are WeRateDogs??

As they describe themselves on twitter, they are source for professional dog rating on Instagram and twitter. They started their twitter account at November 2015 and now they have more than 8 million followers on twitter.

They depend on their unique rating system which you can read about here:

https://knowyourmeme.com/memes/theyre-good-dogs-brent

so, it's not wrong to find rating more than 10/10 based on their system.

Report For:

Communicates the insights and displays the visualization(s) produced from wrangled data.

After completing the three phases of wrangling data:

1. **Gathering Data**
   - Enhanced Twitter Archive
     Basic Tweets data
   - Additional Data via the Twitter API
     Data scraped from twitter using there api
   - Image Predictions File
     Data generated from running photos from twitter archive in neural networks to predict do breed using three different algorithms.
2. **Assessing Data**

   - Detecting Quality Issues
     Issues with content. Low quality data is also known as dirty data.
     Based on these dimensions:
     - Completeness

- Accuracy
- Availability
- Consistency

- Detecting Tidiness Issue.
  issues with structure that prevent easy analysis. Untidy data is also known as messy
  Based on these rules:
  - Each variable forms a column.
  - Each observation forms a row.
  - Each type of observational unit forms a table.

3. **Cleaning Data**
   Basically, running through the previous detected issues and trying to fix it in three steps Define, Code and Test

So, these are some insights and visuals about the WeRateDogs Twitter data

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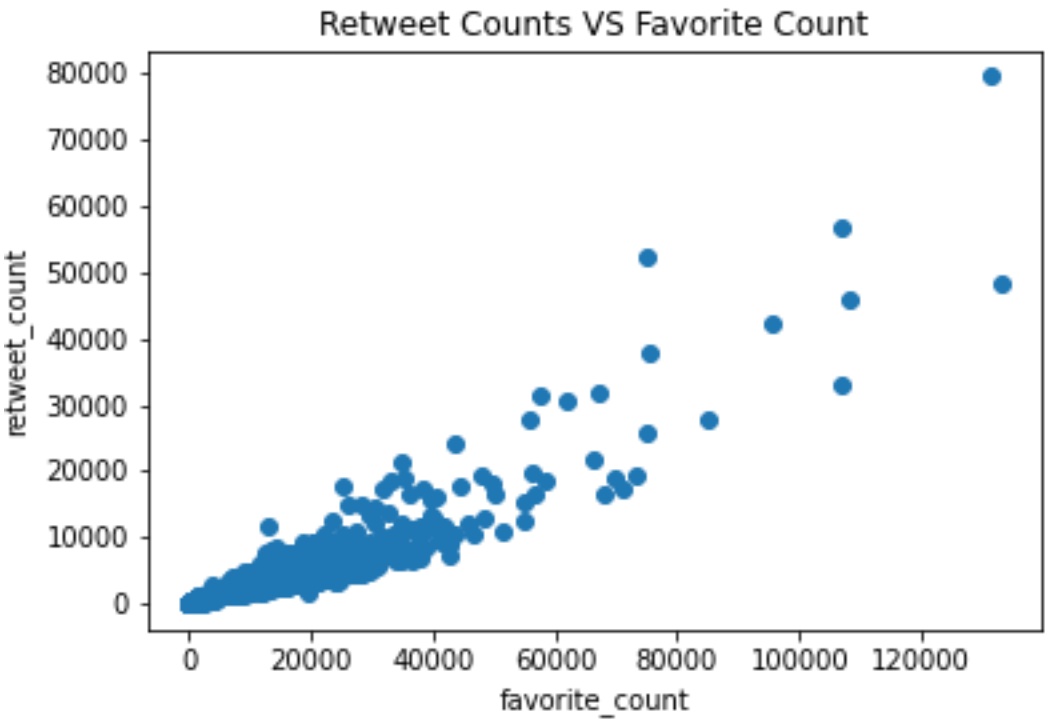
Insights:

- **There is positive correlation between retweet_count and favorite_count**

  - It makes sense that there should be positive correlation between number of retweet_count and number of favorite_cout as tweets that are most liked should be most retweeted.

  - Although the tweet that has max retweet_count is not the same that has max favorite_count

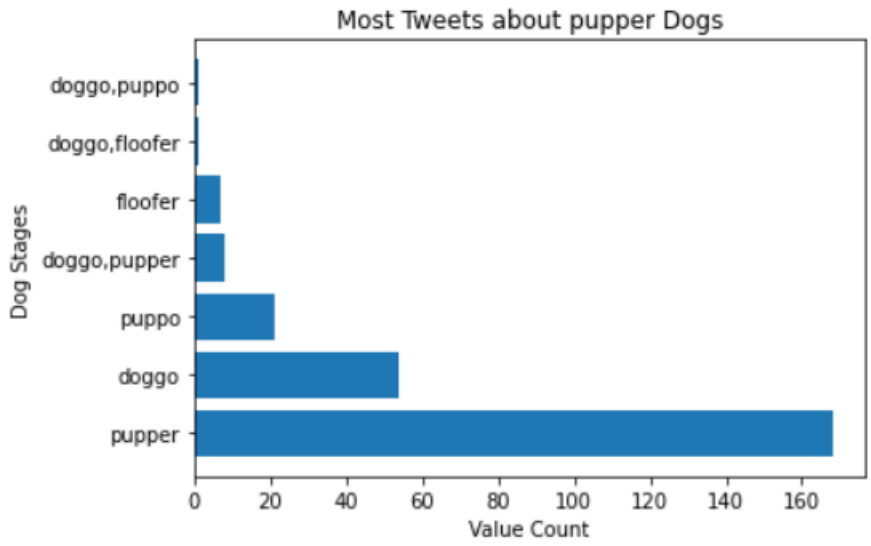


- **Most tweets about pupper dogs**

  - After seeing stats about dog stage, it pops out that most tweets for pupper compared to other dog stages.

```
tweets_clean['dog_stage'].value_counts()
```

```
pupper           168
doggo             54
puppo             21
doggo,pupper       8
floofer            7
doggo,puppo        1
doggo,floofer      1
Name: dog_stage, dtype: int64
```



- **Top 10 most common names for dogs**

  - Also, it appears that regardless the wide diversity in names for dogs, there are some names that appears more than the rest, this is the list of top 10 most common names:

    Lucy
    Charlie
    Cooper
    Oliver
    Tucker
    Penny
    Daisy
    Winston
    Sadie
    Koda

- **Predict with heighest number of tweets belongs to golden_retriever**

  - After analyzing and combing the twitter data and predictions data for the highest prediction confidence, it shows that all predicts are 215 predictions made but the highest on that shows in most tweets is golden_retriever

  - Here is the list for the top ten:
    1. 'golden_retriever'
    2. 'Labrador_retriever'

3. 'Pembroke',
4. 'Chihuahua'
5. 'pug'
6. 'chow'
7. 'Samoyed'
8. 'toy_poodle'
9. 'Pomerania'
10. 'malamute'