Project #5: Wrangle and Analyze Data (Act_Report)

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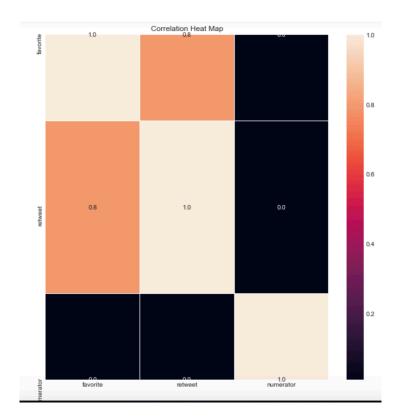
Program: Data Analysis Nanodegree

Introduction:

Wrangle and Analyze Data project required us to create report for wrangled data and act data, first report to show the process and implementation of how we gathering data from 3 sources, assessing data and clean it. Then we need to store cleaned dataset in CSV file before analyzing and visualizing dataset. After analyzing the data we come up with the following steps:

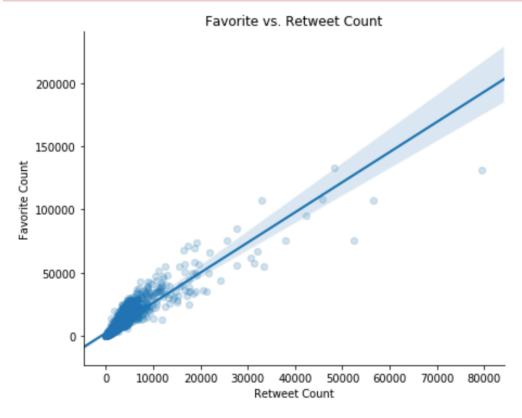
Project Steps:

Step1: Find the relationship between variables using correlation function



Insights:

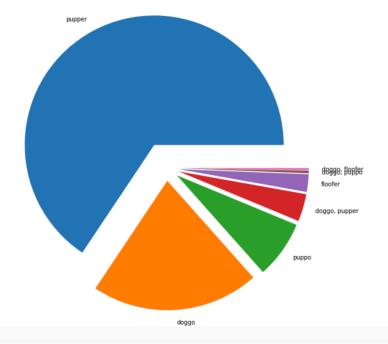
- The strongest relationship in the dataset features are Favorites vs Retweet.
- The relationship is positive relationship as long favorites increase as long as retweet is increase.
- Numerator do not affect any other variables.
- Step2: Favorite vs Retweet



This graph shows how the relation is strong which is normal as we expected.

Step 3: Category of Dog Stage if not None

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In [289]:
# Plot pie chart
dog_stage_count = list(tw_archive_clean[tw_archive_clean['dog_stage'] != '']['dog_stage'].value_counts())[0:7]
dog_stages = tw_archive_clean[tw_archive_clean['dog_stage'] != '']['dog_stage'].value_counts().index.tolist()[0:7]
explode = (0.2, 0.1, 0.1, 0.1, 0.1, 0.1, 0.1)
fig1, ax1 = plt.subplots(figsize=(10,10))
ax1.pie(dog_stage_count, explode = explode, labels = dog_stages);
```



This show the most popular dog stage in our dataset. Pupper is the most variable in our data unlike foofer which is the weakest.

Tools:

- 1. python through Jupyter notebook (ANACONDA) to take a chance to practice in this first project for future projects.
- 2. Visualization libraries:
 - a. Matplotlib
 - b. Seaborn
- 3. Upload work in github." https://github.com/SamiAdham/TMDb-movie-data/blob/master/investigate-a-dataset-%5BSami%20Adham%5D.ipynb"
- 4. Microsoft Word to prepared 'PDF'report

References:

GitHub:

 $\frac{https://github.com/SamiAdham/TMDb-movie-data/blob/master/investigate-a-dataset-\%5BSami\%20Adham\%5D.ipynb"$