Act Report by Michal Ezeh

Report Objectives

The objective was to create a 250-word-minimum written report called "act_report.pdf" or "act_report.html" that communicates the insights and displays the visualization(s) produced from your wrangled data.

Overview

From resolving the issues associated with the datasets, I was able to analyze the data and come up with possible questions that can be obtained from the dataset.

Research Questions

Retweets

- What was the average number of retweets the WeRateDogs account got per tweet?
- What was their most engaging content in terms of retweets?

Favourites/Likes

- What was the average number of likes the WeRateDogs account got per tweet?
- What was their most engaging content in terms of likes?

Image Prediction

- How often was the first prediction actually a dog breed?
- Which image predictions had the highest confidence level on average?

Insights

1. From analysis, it can be seen that the average retweets is 2456.0825096691019.
2. From the analysis carried out in question #4, the model predicts the presence of a dog in the pictures 74.1% of the time.
3. Predictions with the highest average confidence level are not dog breeds, as seen in question #3 where I attempted to understand which predictions were having the highest confidence levels in this dataset.

```
conf_levels =
image_predictions_clean.groupby('p1').mean()['p1_conf'].sort_values(ascending = False)
plt.figure(figsize = (8, 12))
plt.barh(conf_levels.index[:50], conf_levels[:50], color = 'k', alpha = .8);
```