act_report

July 4, 2021

1 Wrangle and Analyze Data

2 1. Import libraries

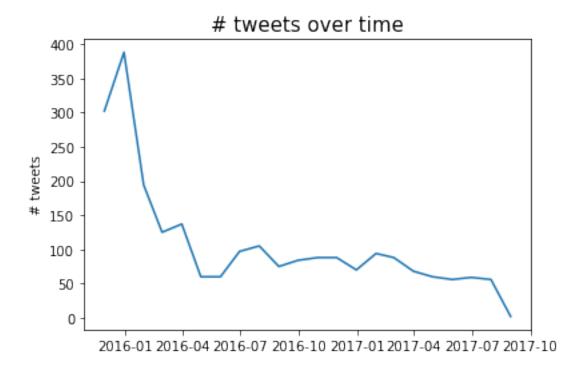
```
[1]: import pandas as pd
  import numpy as np
  import matplotlib.pyplot as plt
  import seaborn as sns
  import json
  import datetime
  import requests
  import tweepy
  from tweepy import OAuthHandler
  from timeit import default_timer as timer
  from subprocess import call
  from tqdm import trange,tqdm
```

2.1 5.3 Visualizing Data

```
[93]: df_merge.head(2)
[93]:
                   tweet_id
                                             timestamp \
      0 892420643555336193 2017-08-01 16:23:56+00:00
      1 892177421306343426 2017-08-01 00:17:27+00:00
                                                      source \
      0 <a href="http://twitter.com/download/iphone" r...</pre>
      1 <a href="http://twitter.com/download/iphone" r...</pre>
                                                        text rating_numerator \
      O This is Phineas. He's a mystical boy. Only eve...
                                                                           13
      1 This is Tilly. She's just checking pup on you...
                                                                          13
         rating_denominator
                                 name \
                          10 Phineas
      0
      1
                          10
                                Tilly
```

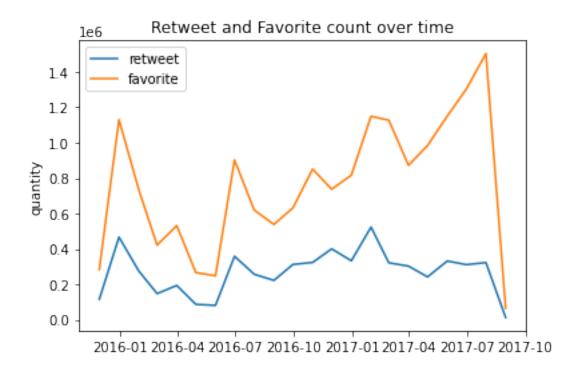
```
jpg_url
                                                   img_num \
0 https://pbs.twimg.com/media/CT4udnOWwAAOaMy.jpg
                                                       1.0
1 https://pbs.twimg.com/media/CT42GRgUYAA5iDo.jpg
                                                       1.0
                      p1 ... p2_conf p2_dog
                                                               p3 \
                                                Shetland_sheepdog
0 Welsh_springer_spaniel ... 0.156665
                                        True
1
                 redbone ... 0.074192
                                        True Rhodesian_ridgeback
   p3_conf p3_dog retweet_count favorite_count followers_count \
0 0.061428
             True
                         7237.0
                                        34675.0
                                                      9001806.0
1 0.072010
             True
                         5420.0
                                        30046.0
                                                      9001806.0
  retweeted_status
                                        url
     Original tweet https://t.co/MgUWQ76dJU
0
1
     Original tweet https://t.co/aQFSeaCu9L
[2 rows x 23 columns]
```

2.1.1 5.3.1 tweets over time



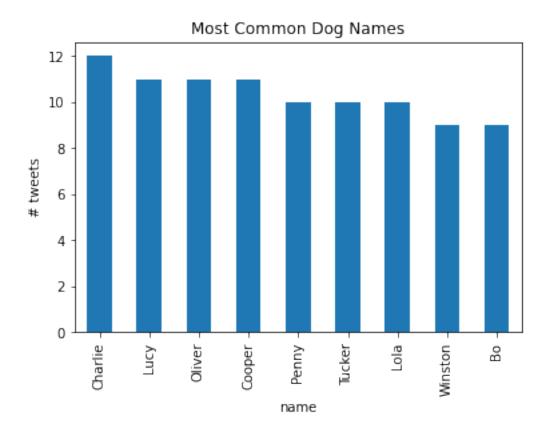
• **Insight**: Through time, the number of tweets has decreased, in 2016 there were almost 400 tweets per month, however in 2017 this quantity decreased near to zero.

2.1.2 5.3.2 retweet and favorite count over time



• **Insight**: Through time, the number of retweets and favorites have followed a similar trend, the only difference is that the number of favorites has been greater than retweets.

2.1.3 5.3.3 Most common dog names



• Insight: Through time, Charlie, Lucy and Oliver are the three most common names.

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