act_report

June 29, 2022

0.1 Report: act_report

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. This is to be framed as an external document, like a blog post or magazine article, for
example.

REPORT ANALYSIS

The data used for this project consisted of three different datasets that were obtained as following:

- 1. Udacity provided the first dataset which is a csv file named twitter_archive_enhanced.csv.
- 2. The second dataset was a tsv file named image_prediction.tsv which was hosted on udacity server and I programmatically downloaded the file.
- 3. For the third dataset, I downloaded it from Udacity Server as an alternative to getting from api, "tweet_json_text" was

I combined the three datasets to generate 'twitter_archive_master.csv' dataset,

I perfomed some programmatic methods as follows;

```
In [7]: ## For the purpose for the Report , I will name the dataframe - "dataset2".
        import pandas as pd
        dataset2 = pd.read_csv("twitter_archive_master.csv")
In [8]: dataset2.describe()
Out[8]:
                   tweet_id rating_numerator rating_denominator
                                                                        img_num
        count 2.073000e+03
                                  2073.000000
                                                       2073.000000
                                                                    2073.000000
               7.383634e+17
                                     12.265798
                                                         10.511819
                                                                       1.203570
        mean
                                    40.699924
        std
               6.780118e+16
                                                          7.180517
                                                                       0.561856
        min
               6.660209e+17
                                     0.000000
                                                          2.000000
                                                                       1.000000
        25%
               6.764706e+17
                                     10.000000
                                                         10.000000
                                                                       1.000000
        50%
               7.119681e+17
                                     11.000000
                                                         10.000000
                                                                       1.000000
        75%
               7.931959e+17
                                    12.000000
                                                         10.000000
                                                                       1.000000
               8.924206e+17
                                  1776.000000
                                                        170.000000
                                                                       4.000000
        max
```

```
favorite_count
                    p1_conf
                                   p2_conf
                                                  p3_conf
                                                           retweet_count
                2073.000000
                             2.073000e+03
                                             2.073000e+03
                                                                               2073.000000
        count
                                                              2073.000000
                   0.594532
                             1.346665e-01
                                             6.034005e-02
                                                              2976.089243
                                                                               8556.718283
        mean
        std
                   0.271234
                             1.006830e-01
                                             5.092769e-02
                                                              5054.897526
                                                                              12098.640994
        min
                   0.044333
                              1.011300e-08
                                             1.740170e-10
                                                                16.000000
                                                                                  0.000000
        25%
                   0.364095
                             5.390140e-02
                                             1.619920e-02
                                                               634.000000
                                                                               1674.000000
        50%
                   0.588230
                             1.186220e-01
                                             4.947150e-02
                                                              1408.000000
                                                                               3864.000000
        75%
                   0.843911
                              1.955730e-01
                                             9.193000e-02
                                                              3443.000000
                                                                              10937.000000
                   1.000000
                             4.880140e-01
                                             2.734190e-01
                                                             79515.000000
                                                                             132810.000000
        max
                followers_count
                                  friends_count
                   2.073000e+03
                                         2073.0
        count
                                          104.0
                   3.200945e+06
        mean
                                             0.0
        std
                   4.497651e+01
                                           104.0
        min
                   3.200799e+06
        25%
                   3.200900e+06
                                           104.0
        50%
                   3.200947e+06
                                           104.0
        75%
                   3.201002e+06
                                           104.0
                   3.201018e+06
                                           104.0
        max
In [9]: dataset2.head(5)
Out [9]:
                      tweet_id
                                           timestamp
        0
           892420643555336193
                                 2017-08-01 16:23:56
        1 892177421306343426
                                 2017-08-01 00:17:27
                                 2017-07-31 00:18:03
          891815181378084864
           891689557279858688
                                 2017-07-30 15:58:51
           891327558926688256
                                 2017-07-29 16:00:24
                                                          source \
           <a href="http://twitter.com/download/iphone" r...</pre>
           <a href="http://twitter.com/download/iphone" r...</pre>
        1
           <a href="http://twitter.com/download/iphone" r...</pre>
           <a href="http://twitter.com/download/iphone" r...
        3
           <a href="http://twitter.com/download/iphone" r...</pre>
                                                            text
                                                                  rating_numerator
        0
           0
                    This is Phineas. He's a mystical boy. ...
                                                                                 13
        1
           0
                    This is Phineas. He's a mystical boy. ...
                                                                                 13
        2
           0
                    This is Phineas. He's a mystical boy. ...
                                                                                 12
        3
           0
                    This is Phineas. He's a mystical boy. ...
                                                                                 13
                    This is Phineas. He's a mystical boy. \dots
        4
           0
                                                                                 12
           rating_denominator
                                     name stage_attribute
        0
                                  Phineas
                             10
                                                       NaN
        1
                             10
                                    Tilly
                                                       NaN
        2
                             10
                                   Archie
                                                       NaN
        3
                                    Darla
                             10
                                                       NaN
```

```
jpg_url
                                                               img_num
           https://pbs.twimg.com/media/DGKD1-bXoAAIAUK.jpg
           https://pbs.twimg.com/media/DGGmoV4XsAAUL6n.jpg
                                                                     1
                                                                             . . .
           https://pbs.twimg.com/media/DGBdLU1WsAANxJ9.jpg
                                                                     1
        3 https://pbs.twimg.com/media/DF_q7IAWsAEuuN8.jpg
                                                                     1
                                                                             . . .
           https://pbs.twimg.com/media/DF6hr6BUMAAzZgT.jpg
                                                                             . . .
                            p2
                                 p2_conf p2_dog
                                                                             рЗ
        0
                         bagel 0.085851
                                            False
                                                                         banana
        1
                      Pekinese
                                0.090647
                                             True
                                                                       papillon
        2
                      malamute
                                0.078253
                                             True
                                                                         kelpie
        3
          Labrador retriever
                                0.168086
                                             True
                                                                        spatula
        4
             English_springer 0.225770
                                             True
                                                  German_short-haired_pointer
            p3_conf
                      p3_dog retweet_count
                                             favorite_count
                                                             followers_count
        0 0.076110
                       False
                                                                      3200889
                                      8853
                                                      39467
        1 0.068957
                        True
                                      6514
                                                      33819
                                                                      3200889
        2 0.031379
                        True
                                      4328
                                                      25461
                                                                      3200889
           0.040836
                       False
                                      8964
                                                      42908
                                                                      3200889
           0.175219
                        True
                                      9774
                                                      41048
                                                                      3200889
           friends_count
        0
                      104
                      104
        1
        2
                      104
        3
                      104
        4
                      104
        [5 rows x 23 columns]
In [10]: dataset2.groupby(['stage_attribute'])['followers_count'].sum()
Out[10]: stage_attribute
         doggo
                           214460749
         doggo,floofer
                             3200892
         doggo, pupper
                            35210032
         doggo, puppo
                             3200891
         floofer
                            22406470
                           672198936
         pupper
                            73620871
         puppo
         Name: followers_count, dtype: int64
```

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NaN

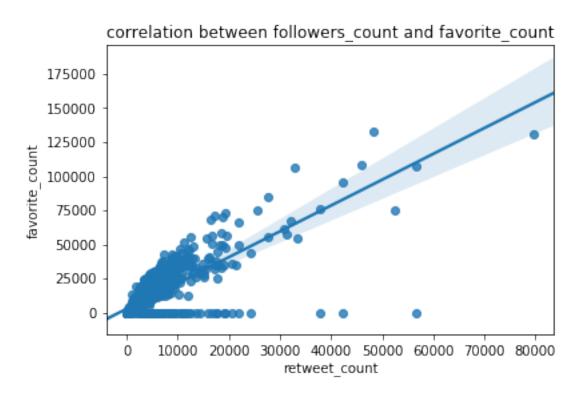
0.1.1 Insights:

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- 1. The minimum retweet_count is 16 while the maximum is 79515
- 2. The minimum favorite_count is 0 while the maximum is 132810

3. Dogs in Pupper stage has more followers

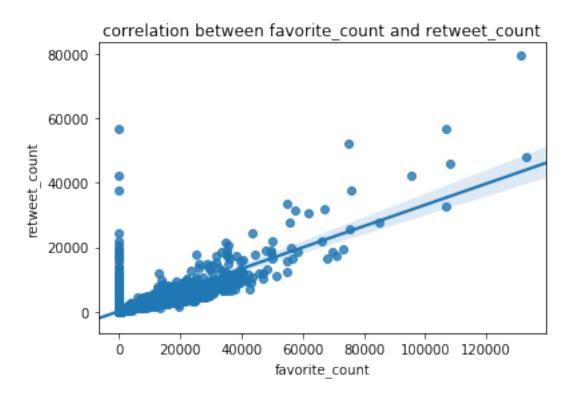
1 Does increase in followers_count has any effect in favorite_count?



There is a strong relationship between followers_count and favorite_count.

2 Does increase in favorite_count has any effect in retweet_count?

In [19]: scatter_plot('favorite_count', 'retweet_count', 'correlation between favorite_count and reference to the chart of the chart of



from the chart above, it shows that there is a strong correlation between favorite_count and retweet_count

In []: