

# act\_report

May 26, 2020

## 1 Visualize and Analyze

### 1.1 Shakhawat Hassan

```
In [70]: df_new.describe()
```

```
Out [70]:
```

	rating_numerator	rating_denominator	p1_conf	p2_conf \
count	2073.000000	2073.000000	2073.000000	2.073000e+03
mean	12.265798	10.511819	0.594532	1.346665e-01
std	40.699924	7.180517	0.271234	1.006830e-01
min	0.000000	2.000000	0.044333	1.011300e-08
25%	10.000000	10.000000	0.364095	5.390140e-02
50%	11.000000	10.000000	0.588230	1.186220e-01
75%	12.000000	10.000000	0.843911	1.955730e-01
max	1776.000000	170.000000	1.000000	4.880140e-01

	p3_conf	retweet_count	favorite_count
count	2.073000e+03	2073.000000	2073.000000
mean	6.034005e-02	2976.089243	8556.718283
std	5.092769e-02	5054.897526	12098.640994
min	1.740170e-10	16.000000	0.000000
25%	1.619920e-02	634.000000	1674.000000
50%	4.947150e-02	1408.000000	3864.000000
75%	9.193000e-02	3443.000000	10937.000000
max	2.734190e-01	79515.000000	132810.000000

- At 75 percentile, most dogs get at the scale of 12 on rating numerator.
- At 75 percentile, most dogs get at the scale of 11 on rating denominator.
- There are more favorite counts than retweet counts.

```
In [ ]:
```

#### 1.1.1 Most Popular Names

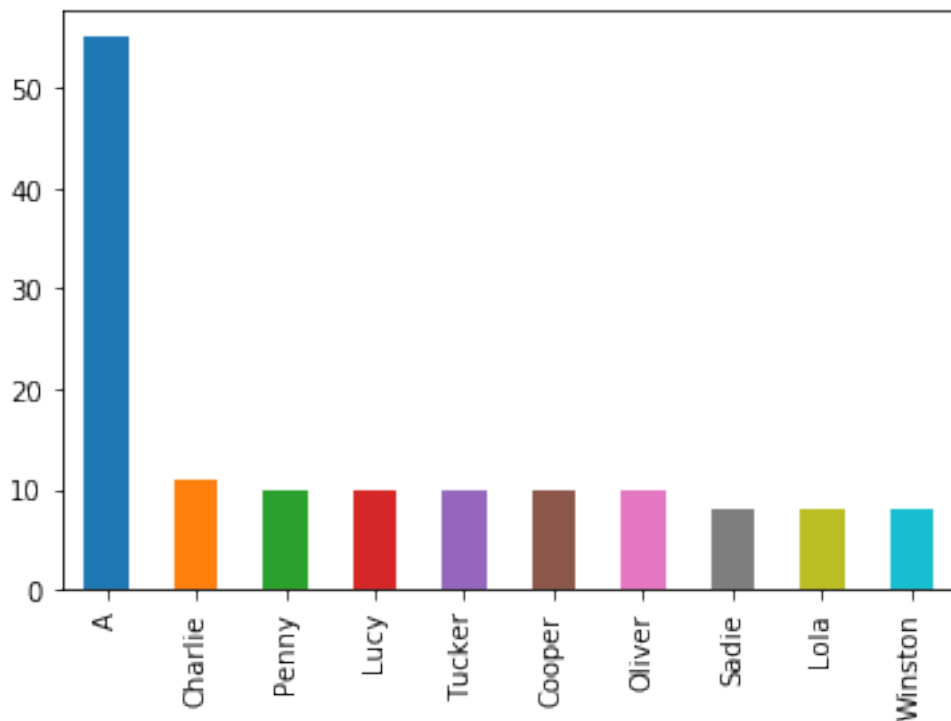
```
In [72]: common_names = df_new['name'].value_counts().nlargest(10)
common_names
```

```
Out[72]: A          55
        Charlie    11
        Penny      10
        Lucy       10
        Tucker     10
        Cooper     10
        Oliver     10
        Sadie       8
        Lola        8
        Winston     8
        Name: name, dtype: int64
```

Top 10 dog names

```
In [73]: common_names.plot.bar()
```

```
Out[73]: <matplotlib.axes._subplots.AxesSubplot at 0x7fe1fc392048>
```



Unrecorded names with 'A' dogs' have the highest number of names among all other names.

### 1.1.2 Dog Stages

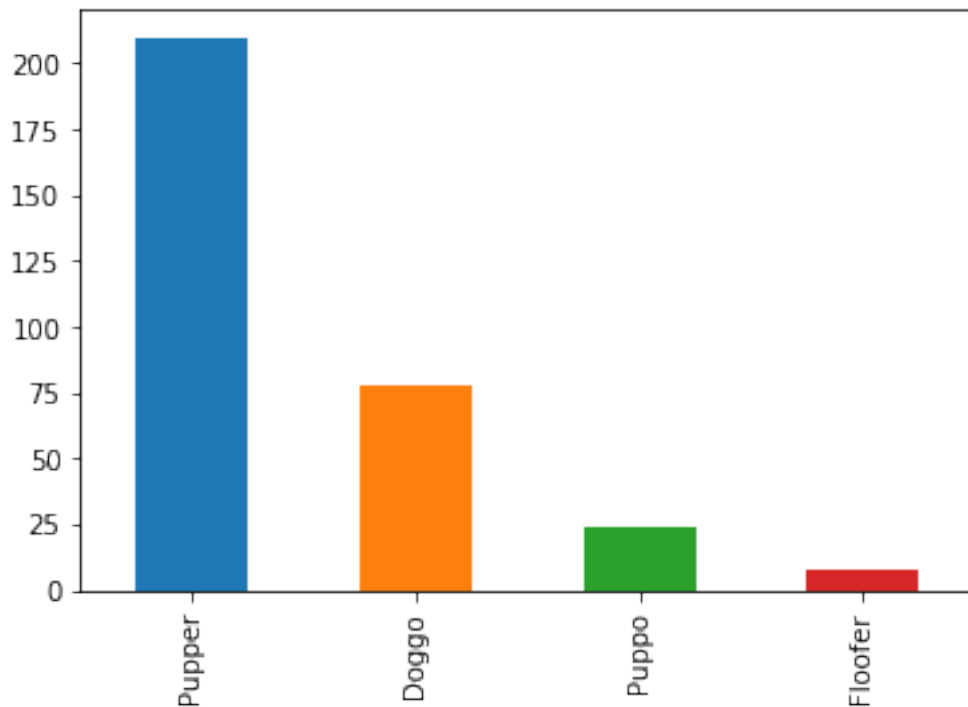
```
In [74]: dog_stages = df_new['stage'].value_counts()
        dog_stages
```

```
Out[74]: Pupper      210  
         Doggo       78  
         Puppo       24  
         Floofer      8  
         Name: stage, dtype: int64
```

Pupper stage has the highest number of dogs

```
In [75]: dog_stages.plot.bar()
```

```
Out[75]: <matplotlib.axes._subplots.AxesSubplot at 0x7fe1fc5079b0>
```



Pupper stage has the highest number of dogs

```
In [76]: df_new.info()
```

```
<class 'pandas.core.frame.DataFrame'>  
Int64Index: 2073 entries, 0 to 2072  
Data columns (total 18 columns):  
tweet_id      2073 non-null object  
timestamp     2073 non-null datetime64[ns]  
text          2073 non-null object  
rating_numerator  2073 non-null int64  
rating_denominator 2073 non-null int64  
name          1496 non-null object
```

```

stage                320 non-null object
p1                   2073 non-null object
p1_conf              2073 non-null float64
p1_dog               2073 non-null bool
p2                   2073 non-null object
p2_conf              2073 non-null float64
p2_dog               2073 non-null bool
p3                   2073 non-null object
p3_conf              2073 non-null float64
p3_dog               2073 non-null bool
retweet_count         2073 non-null int64
favorite_count        2073 non-null int64
dtypes: bool(3), datetime64[ns](1), float64(3), int64(4), object(7)
memory usage: 265.2+ KB

```

### 1.1.3 Favorite Tweets vs Retweets

```
In [77]: df_new['retweet_count'].describe()
```

```

Out[77]: count      2073.000000
         mean      2976.089243
         std      5054.897526
         min        16.000000
         25%       634.000000
         50%      1408.000000
         75%      3443.000000
         max      79515.000000
         Name: retweet_count, dtype: float64

```

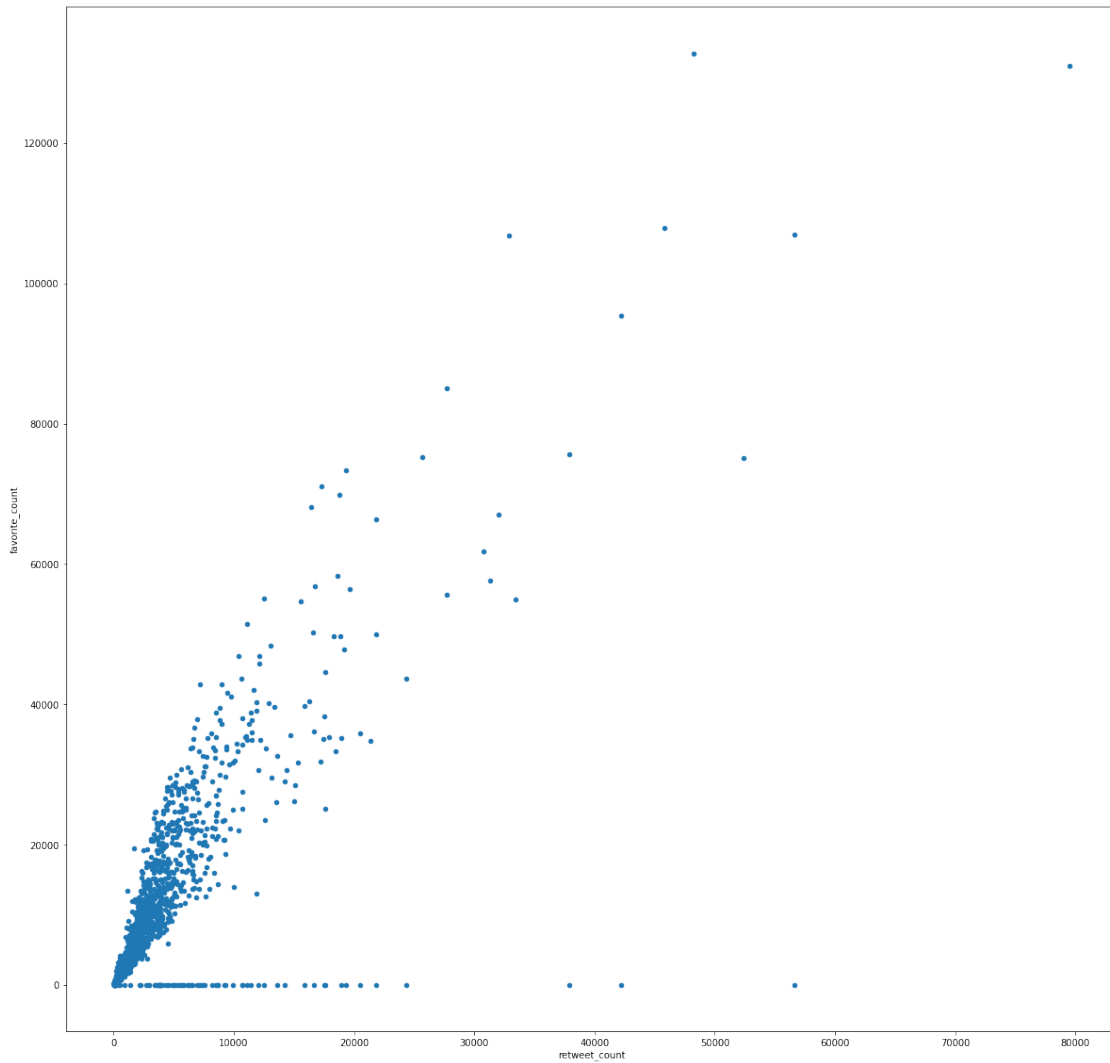
```
In [78]: df_new['favorite_count'].describe()
```

```

Out[78]: count      2073.000000
         mean      8556.718283
         std     12098.640994
         min         0.000000
         25%     1674.000000
         50%     3864.000000
         75%    10937.000000
         max    132810.000000
         Name: favorite_count, dtype: float64

```

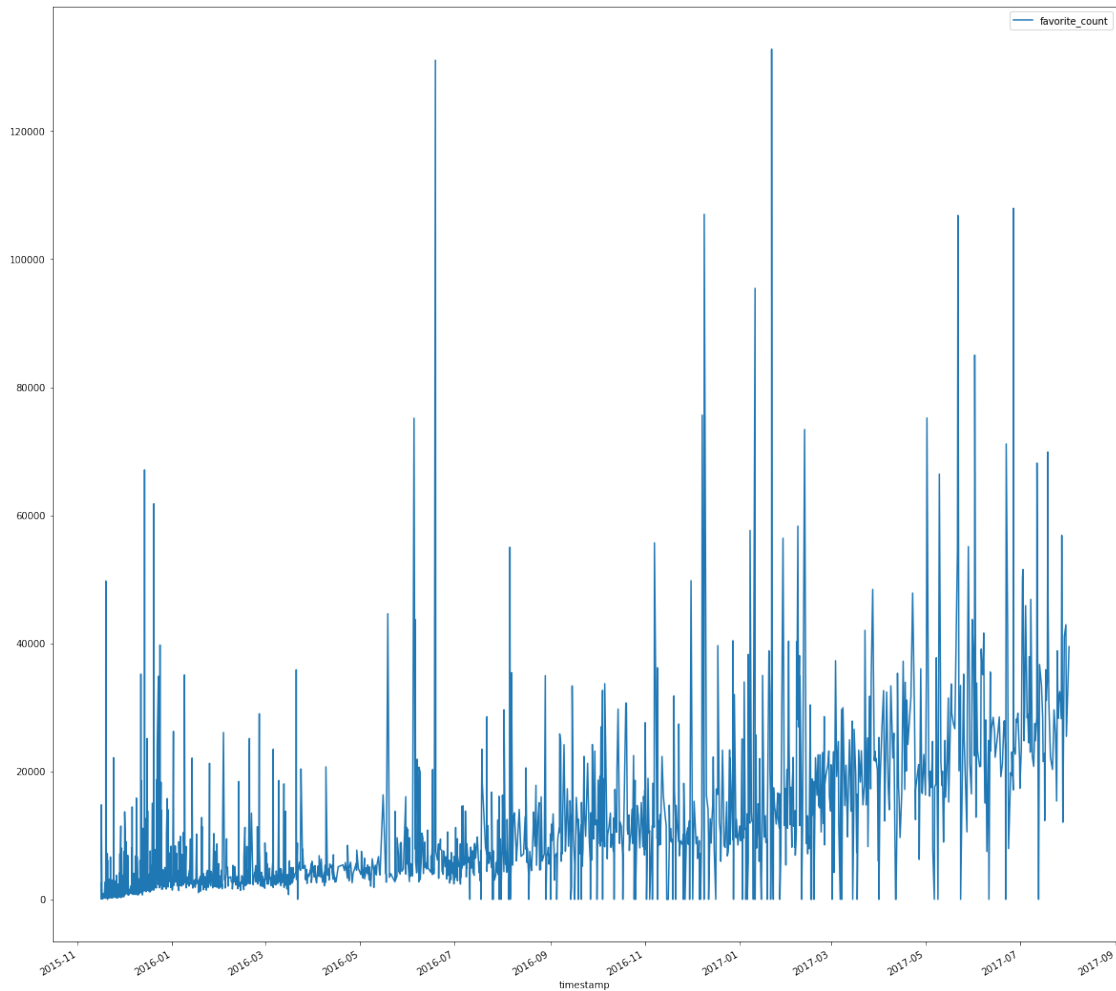
```
In [52]: df_new.plot(x = 'retweet_count', y= 'favorite_count' , kind = 'scatter', figsize= (20,
plt.show())
```



There is a more positive correlation towards the favorite count side.

#### 1.1.4 Favorite tweets vs Timestamp

```
In [53]: df_new.plot(x = 'timestamp', y= 'favorite_count' , kind = 'line', figsize = (20,20))  
         plt.show()
```



As time goes on, more people are liking a tweet than retweeting that tweet.

## 1.2 Conclusion:

**Data Wrangling:** After cleaning all the datasets, merged all three datasets into one single dataset. I get 320 dogs', 1496 dogs' names, other than these two rows. I have all other rows with 2073 rows. ##### Analysis: At 75 percentile, most dogs get at the scale of 12 on rating numerator. At 75 percentile, most dogs get at the scale of 11 on rating denominator. There are more favorite counts than retweet counts. Top 5 dog names are A (unrecorded name), Charlie, Penny, Charlie, Lucy. The pupper stage has the highest number of dogs among all other stages (210). As time goes on, more people are favoriting a tweet than retweeting a tweet.

## 1.3 Limitations:

There is about 55 dog names which are named with 'A' which does not tell us what's the real name of an 'A' dog's name. There are about 1496 dog names wheres rows are 2073. Dog stages are only about 320 while having 1496 dogs' names.

```
In [ ]:
```