Data Analysis And Visualization

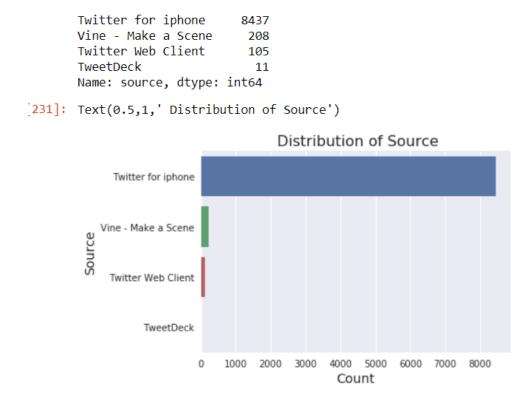
Introduction

This report includes the data visualization after we cleaned the data. This visualization helps to prove insights about about our analysis and try to give picture of our analysis.

Data Analysis and Visualization

1. Distribution of source

One of the first visualization that I performed was to know the distribution of the source that twitter feed is getting. Looking at the chart, We can clearly say that about majority ~93% of the tweets are coming from iPhone while tweet deck source is kind of rare.



2. Histogram of dog type

Second visualization indicates about the type of dogs that has been indicated in the tweets. Looking at histogram, we can clearly see that pupper is the highest mention in the tweet and floofer is the lowest mention in the tweet.

```
In [240]: tarchive.dogtype.value_counts()
Out[240]: pupper
                      667
           doggo
                      542
           puppo
                      200
           floofer
                       50
           Name: dogtype, dtype: int64
In [241]: tarchive.dogtype.hist()
Out[241]: <matplotlib.axes. subplots.AxesSubplot at 0x7feb2f039908>
            700
            600
            500
            400
            300
            200
            100
```

3. Plot of retweet that has less count than 20000

doggo

0

In this visualization, histogram shows about the tweet that has the retweet count less than or equal to 20000. Looking at the visualization and data we can see that the histogram is right skewed.

pupper

puppo

floofer

```
In [243]: tarchive.retweetcount.describe()
Out[243]: count
                     7360.000000
           mean
                     4486.392391
                     4965.260908
           std
           min
                      146.000000
           25%
                     2005.000000
           50%
                     3080.500000
           75%
                     4876.250000
           max
                    54120.000000
          Name: retweetcount, dtype: float64
In [224]: tarchive[tarchive.retweetcount<=20000].retweetcount.hist()</pre>
Out[224]: <matplotlib.axes._subplots.AxesSubplot at 0x7feb2fa47940>
            2500
            2000
            1500
            1000
            500
              0
                                 7500
                                      10000 12500 15000 17500
                 0
                      2500
                           5000
```

4. Plot of favorite count of the tweet

In the histogram and looking at the record information we can clearly see that it is right skewed. Also, mean is greater than median so it write skewed.

```
In [225]: tarchive.favcount.describe()
Out[225]: count
                      7360.000000
           mean
                     17326.679484
           std
                     14086.175013
           min
                       843.000000
           25%
                      8528.000000
           50%
                     13491.000000
           75%
                     21717.250000
                    128674.000000
           max
           Name: favcount, dtype: float64
In [226]: tarchive.favcount.hist()
Out[226]: <matplotlib.axes. subplots.AxesSubplot at 0x7feb304e28d0>
            3500
            3000
            2500
            2000
            1500
            1000
             500
              0
                  0
                      20000
                             40000
                                    60000
                                          80000
                                                100000 120000
```

5. Highest name that has been used in twitter

Looking at the descriptive value that has the highest number of names that been used in the tweet.

In [227]: tarchive.name.value_counts().head(20)

Out[227]:	None	2005	
	a	84	
	Charlie	68	
	Penny	57	
	Tucker	55	
	Cooper	48	
	Stanley	47	
	Daisy	46	
	Winston	45	
	Bailey	44	
	Во	42	
	Oliver	40	
	Lucy	39	
	Boomer	37	
	Koda	35	
	Scout	34	
	Zeke	34	
	Toby	34	
	Leo	34	
	Rusty	34	
	Name: name,	dtype:	int64

6. Correlation between retweet count and favorite count

I just want to test the correlation between retweet count and favorite count. Looking at the visualization we can clearly see that it is positive correlation. It does have strong association between this variable.

