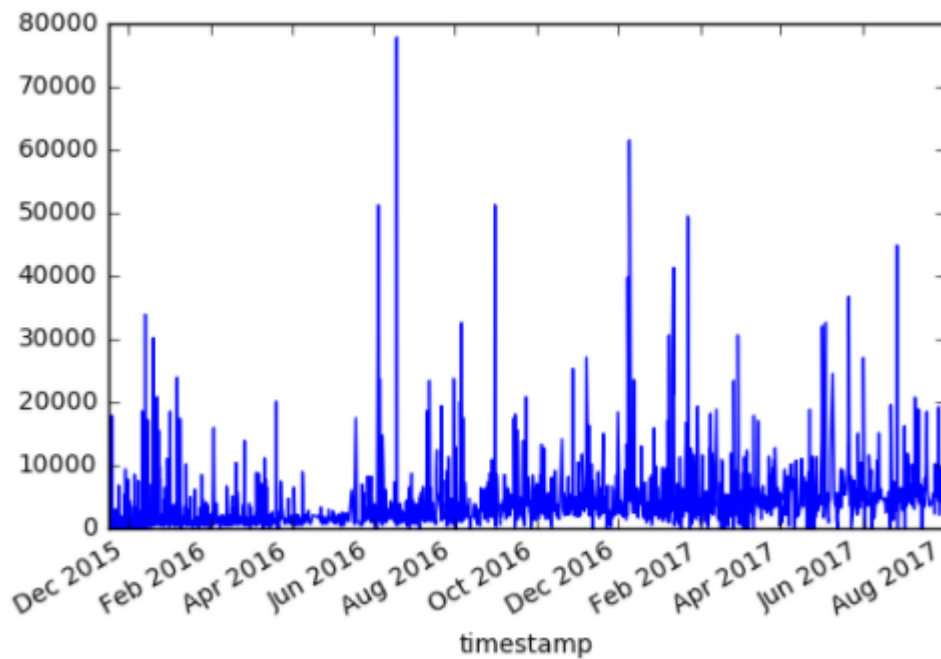# ANALYSIS REPORT

A brief analysis on some aspects of the data revealed the following:
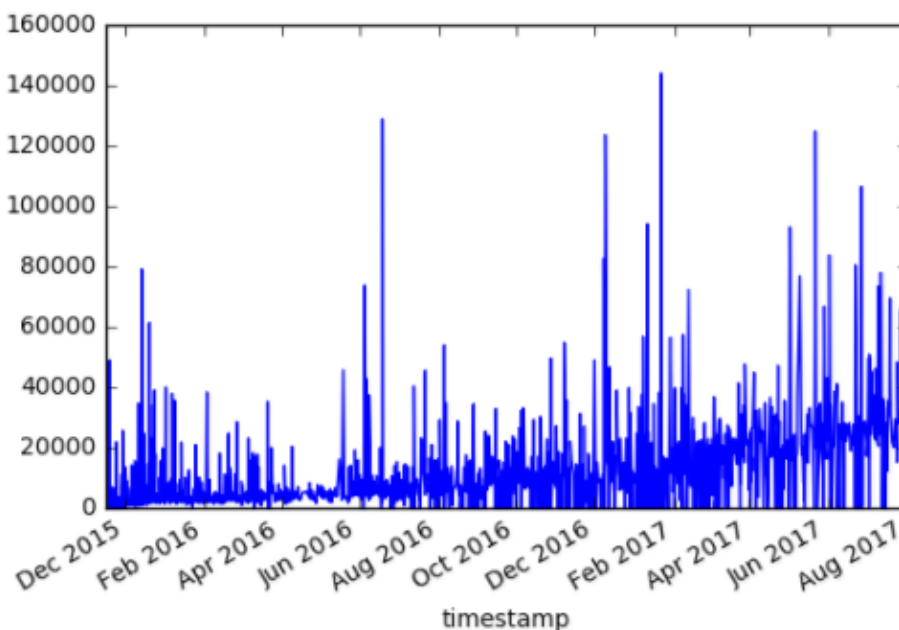
Retweets Vs Time:

The retweet counts show an increase with time which is expected as the account's popularity increase and tweets are exposed to more people
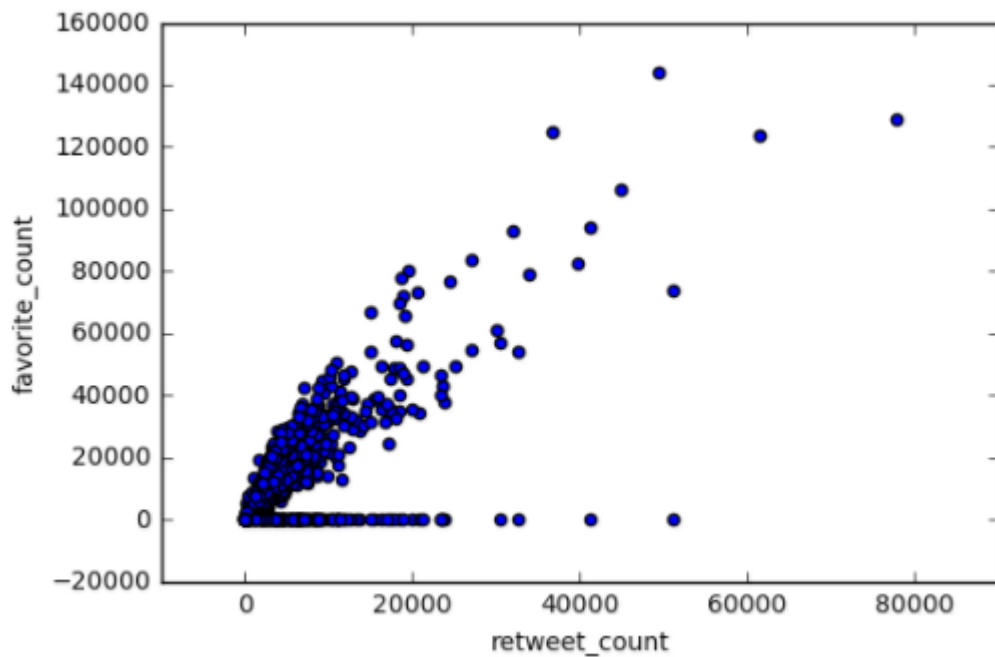

Favorites Vs Time:

The favorite counts show an increase with time which is expected as the account's popularity increase and tweets are exposed to more people

Investigation the correlation between favorites and retweets

i. Using a scatter plot to investigate the relation between the two variables the plot showed a strong positive correlation between the two.

further mathematical confirmation is needed.

ii. Using Pearson's correlation between the two variable, a correlation coefficient of 0.76 is obtained which indicates that the two variables are strongly positively correlated and the favorite count increases with retweets

Images table statistical description

	img_num	p1_conf	p2_conf	p3_conf
count	1751.000000	1751.000000	1751.000000	1.751000e+03
mean	1.214734	0.604207	0.137715	6.161188e-02
std	0.574337	0.265911	0.101297	5.192022e-02
min	1.000000	0.044333	0.000010	2.160900e-07
25%	1.000000	0.377079	0.055020	1.608055e-02
50%	1.000000	0.605304	0.121811	5.000780e-02
75%	1.000000	0.848720	0.199439	9.480810e-02
max	4.000000	0.999984	0.467678	2.734190e-01

A statistical description of the images table implementing the AI image detection algorithm showed: the image detection algorithm showed a higher confidence in the first attempt p1 with a maximum reaching almost 1 in some cases