

Exercise12

Pup Inflation Report

During our first attempt(in exercise 2), the dog tweets dataset has been tested. I have used linear regression to analyze my data set and later after applying the same, I was trying to find any meaningful output or trend from the dog tweets dataset. Below in **Fig1.**, is the result of the linear regression on dog tweets data set and it is demonstrated that there is increase in the ratings with respect to the time. Thus, the data is showing an increasing trend here. Moreover, the slope of the fit came out to be positive on calculation which indicates that ratings are increasing linearly with respect to the time.

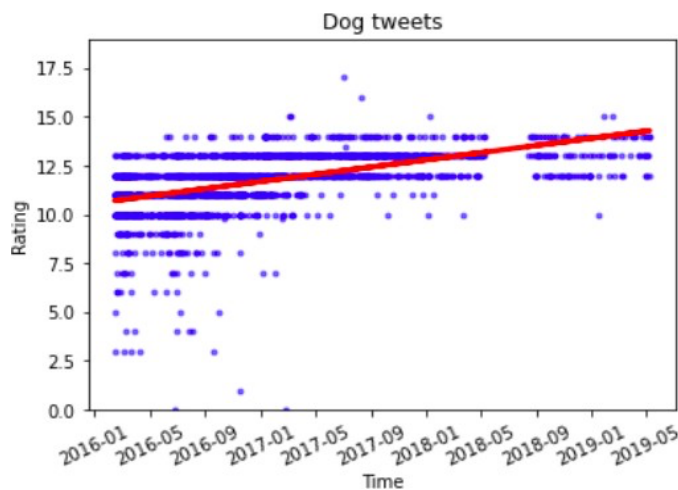


Fig1.

On my next attempt to demonstrate the dog tweets data file, I have plotted a histogram of residuals as shown below in **Fig2.** The plot is to check the distribution of the data and to observe whether it's distributed normally or not. Here, I have seen an approximate bell shape, so I noted that the data is distributed normally.

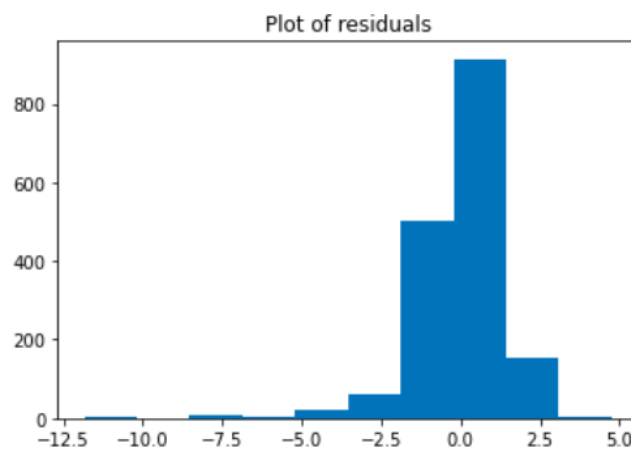


Fig2.