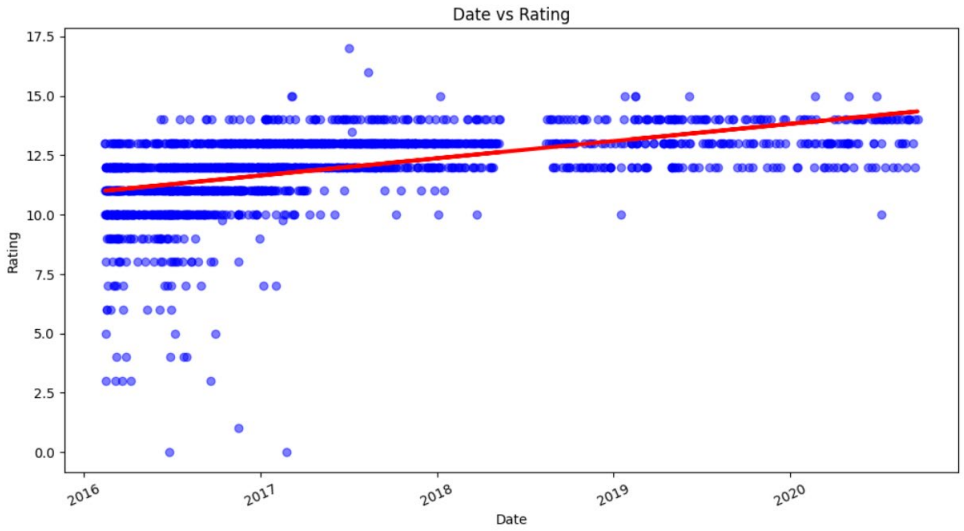
"Pup Inflation": Understanding the @dog_rates Phenomenon

We investigated the information from the @dog_rates Twitter account in this entertaining and fascinating data science investigation. This account is well-known for giving dog pictures submitted by users fascinating and distinctive ratings. We'll discuss our research in this blog and use data visualization to highlight some intriguing themes.

Each blue dot in the scatter plot depicting the change in dog ratings over time below represents a tweet. There may have been a tiny upward trend in this graph, indicating that dog evaluations have gotten better over time. But we conducted additional research to be sure that this was the case. To get the line of best fit, or essentially the average trend in ratings, we performed a linear regression on the data. There was a rising trend in dog ratings, as seen by the data' upward slope.



The below histogram shows the differences, or 'residuals', between what our model predicts and the actual ratings. In an ideal scenario, these differences would be zero, meaning our predictions are spot on.
Looking at our graph, most of the differences cluster around zero, suggesting our model is doing a good job predicting most of the dog ratings. The shape of the graph also follows a pattern we'd expect if our model is accurate.
However, there are some ratings that our model over or under-predicts, likely due to particularly high or low ratings or other factors we didn't consider in our model. Despite these exceptions, the general trend indicates our model is reasonably reliable.