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EDA Report:

The graphs created in my EDA gave me a lot of valuable information for creating my ML model. The traffic over time graphs showed that the level of traffic significantly changes between different hours. I will not be able to use any kind of stationary model; the one I choose will have to work well with time series data. Additionally, the changes in traffic can increase and decrease very quickly, meaning that it may be best to compare the same time of day on different days rather than on the same day predicting the same level of traffic forward. This data suggests that I should use a model such as ARIMA to predict traffic levels.

My ACF and PACF graphs display that at some times the period before can predict the one after it, but at some points, it is completely unpredictable. Additionally, negative values on these graphs show that there is definitive seasonality in this dataset. This data only solidifies what I learned in my other graphs, that I should be using an ARIMA model that will best capture this kind of data.