After completing the Machine Learning Model, we found that Votes, Runtime, and Domestic Gross were the top 3 variables in determining IMDB scores. All three were of above 40% relevancy while the other 10 variables did not even make it to the 40% mark on the RandomForestClassifier pictured to the left.

While each variable perfectly correlates with itself, we see that is not the case when each variable meets all the others. Votes, runtime, and domestic gross produce some of the highest numbers on the correlation matrix (pictured left) when coming across each other and other variables.

When you take the Votes, Runtime, and Domestic gross and put them against the IMDB scores individually (graphed to the left), you will most certainly notice a trend. As the scores get higher, the averages for all three variables go up. Thus, solidifying once again why they are the top three variables.