Write Up

My project idea is to predict the length of procedure times by a spine intervention specialist in Fresno. This will help the doctor schedule times so he will not run late and will be able to fit the maximum number of patients possible each day.

The hospital the doctor does his procedures at Fresno surgery hospital provided data in order. So far, I have taken the info provided to me by Fresno Surgery Hospital and managed to clean it and put it into a CSV file. From there I have ran a series of different models, both classification and regression on the data. I believe I have been able to beat the null accuracy (although I have not actually tested what the null accuracy is) if the null accuracy is defined by the average length of time of a medical procedure. My best algorithms so far have been KNN and Random forests which have given me a cross validated sqrt sqrd error of roughly 10.5. I plan on adding these algorithms, and eventually several others into an ensemble and hope that this will improve this score even more. I also plan on changing a couple of the features slightly.