Sawyer Jacobson

Data Science Capstone

Midterm Project

4/7/2021

I am planning on doing my own project for the midterm and have it continue onto the final project. That project will be NHL player and game analytics. I would split this up into 2 separate analyses obviously, but the particulars of each are somewhat to be determined. Some of the analyses that I plan on doing will be player level predictions, such as salary, future performance, etc. as well as team level predictions such as predicting the winner of a game. Right now, I would say I plan on doing player level predictions for the midterm and team/game level predictions for the final project. I anticipate and plan on the game predictions to be much more research intensive. I will be scraping and collecting the data myself to obtain the necessary player, game, and team level data I anticipate needing.

My final goal will be to ultimately put together an NHL analytics app that houses these analyses as well as the respective project papers. For the app, I plan on using Rshiny since I am very familiar with shiny apps and design. I will likely use a combination of both R and Python for these projects depending on which tool I deem more useful/appropriate for the task.

I played hockey through college so this is a topic on which I have a significant amount of domain knowledge and one that greatly interests me. Focusing both projects on this topic will allow me to be rigorous and thorough in my analyses.