Ian Nisbet

OCN 506

Assignment 1

1. I use a Macbook Pro 2019, OS X Calalina, also has Windows Bootcamp installed, 16 GB of Ram, 1 TB of storage that is 70% full.
2. I mostly use
   1. Microsoft Office – Word, Excel, Powerpoint,
   2. LaTeX for writing reports
   3. PTV Vissim – Traffic modeling software
3. Programming Languages I use
   1. R – for data analysis, statistical modeling. I use packages such as ggplot2, tidyverse, vglm, dplyr
   2. Matlab – used for calculations or plotting data
   3. LaTeX for writing reports
   4. Microsoft SQL server studio
4. What I wish I could do
   1. I wish I could do most of my work with one programming language, which I think might be possible with Python.
   2. I wish I had more organization and methodical procedures for my programming problem solving skills.
5. Recent Coding Problem
   1. Last quarter, I was working on a class project to develop a data input app using R, R shiny, and Microsoft SQL server. The purpose of the app was to have a user interface to simplify data input collected from bike counts into a SQL database. I ran into trouble collecting the date using the datetime data type which consisted of mm-dd-yyyy. The format of the date from the R app input would not convert to the same datetime format that SQL would accept. The first step I tried to solve this was search Google for forums or stackoverflow posts with the answer. After that was not successful, I tried looking at example apps provided by the R shiny website to try to see example code for how to correctly convert that data type. After this was also not successful, I decided to change the format to a numeric input with a separate input for month, date, and year. This was sort of a compromise, and allowed me to continue building the app after moving past that issue. If I had additional time after the project was completed, I would have liked to go back and research that issue more in depth to fix it properly.