Lucas Marando

Python Programming

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Professor Domanski

**NJ Crash Reports**

The social problem I planned to tackle with this project was specific towards New Jersey drivers and trying to stay as safe as possible when driving on New Jersey roads. New Jersey is famously known across the US to be one of the craziest states to drive a vehicle in. The state gained this stereotype from the fact that many people in the state drive very recklessly and light cameras are considered illegal for use in the state. Knowing that the cameras do not work, New Jersey drivers have gotten increasingly worse in all parts of the state.

The main vision with the program I’ve created for this situation was to gather a lot of the information we have on crash reports over the years and compare them to other counties around to get people to understand what counties to stay away from driving a lot in because of how high their crash report rate is compared to others. Having this information projected in front of you when you read the chart lets you understand how over the years, safety in some counties has increased, which the chart will show that through the years of 2018 till 2020.

My safe goal for this project was to at least get a proper graph to show up with some sort of information on it. Inserting the information into the code and understanding how to plug certain parts to make the graph appear was the easy part. Utilizing the xlsx writer library allows for the program to write the information from the excel sheet and print it back in and save to the excel sheet. My stretch goal would be to have the chart have all correct information presented on output. I anticipated that having the information get plugged in to all the right spots was a long shot. Having 22 counties seemed to be confusing to me to try to input correctly.

A major detour that I ran into when developing this project was the fact that I could not work out the function of getting the excel sheet to print as properly as I wanted it to. The chart prints out and displays, but will not display the right numbers that are supposed to be showing up. I got around fixing this major detour by a lot of trial and error with function that is pulling from the excel sheet to make the chart.

Something that I found that was very helpful from class to this project was the knowledge of Beautiful Soup and also , looking up a lot of information about the topic and idea that I had, xlsxwriter was a python library that I had learned about during the process of this. Xlsxwriter allows my code to go into the excel sheet and create the certain criteria’s fulfilled to make what I coded into python.

Something that I learned about myself during this project is that, I need to give myself more time to work on projects. A lot of the issues and functions took longer than I thought they would to fix so due to those issues, I was not able to develop the full idea of code that I wanted to from the start.