Portfolio Milestone Project

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(Insert Link Here to Github)

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***Introduction***

Data science is a newer field that extracts knowledge from three other well-established fields. Those three fields include statistics, computer science, and any area of expertise. That area of expertise can be just about anything; it is just applying both computer science and statistics in a synthesized way to improve that field of knowledge. For example, I come from a background in cognitive experimental psychology. This may not be something you would expect in data science. Still, after a rough career of being a college Psychology Professor for 20 years, I decided to change. I found that data science was something I was very interested in. I could refresh my statistical knowledge from my days and my Ph.D. program and learn to program and do more advanced statistics and data manipulation. I chose the Syracuse Master of Applied Data Science from the iSchool as my path to this degree. The iSchool has multiple program outcomes that are important for students' development and success once they enter the workforce. These include but are not limited to:

* Describing a broad overview of the major practice areas of data science.
* Collecting and organizing data.
* Identifying patterns in data visualization, statistical analysis and data mining.
* Developing alternative strategies based on the data itself.
* Developing a plan of action to implement the business decisions derived from the analysis.
* Demonstrating communication skills regarding data and its analysis for managers, IT professionals, programmers, statisticians, and other relevant professionals in their organization.
* Synthesizing the ethical dimensions of data science practice.

Here, I will use this portfolio to exhibit my skills in these areas that I have developed over the past two years in the data science program here at the iSchool. These will range from programming projects in R, to projects in Python, to using excel, and even traditional papers that cover some of the more ethical aspects of data science. The courses that I have chosen to include are unique to my experience at the iSchool and may not be reflective of that of other students.

***Overview (Coming Soon)***

***Project Descriptions***

***Collecting Data***

***Analyzing Data***

***Alternative Strategies with Data***

***Communication***

***Ethical Dimensions***