

Senior Design Self-Assessment

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Senior Design Project was done Individually.

Part A

I was responsible for all parts of this project. This includes all of the design ideation, required Senior Design class assignments, programming, etc. I was able to apply and build upon the skills identified in my initial assessment from last Fall. It is important to note however that my project took a direction change between the Fall and Spring. My advisor and I decided that it was for the best and I would be able to have more learning and a more impactful project/outcome. I continued to gain skills that I was learning in the Fall as well as new skills such as Statistics, Correlation, Python, an assortment of Python libraries that work with data, etc. I was able to become competent in all of these areas.

I created this Correlation Analysis Project by first identifying what type of program we wanted to make through a series of meetings and research. Once we identified what direction we wanted to take, I did a plethora of research about statistics, correlation, how to run these tests inside of Python, etc. I then went on to the programming phase of my project where I had to implement these ideas. I had to program iteratively as I encountered roadblocks and knowledge gaps, by changing my approach slightly as needed. During and after the program was completed, I finished all of my Senior Design Class assignments, with some important ones being User Docs, Test Plan, Expo Poster, etc. Successes were common for this project but were not gained without lots of work. I am proud of how the project turned out in the programming side of things because I was able to provide a working, interesting, and innovative project, and not just being stuck on a prototype. This project I can live demo at the expo and even have others try this program with their own data. I also appreciate how my program has an aura of practicality, such that this program could be used for data exploration and correlation analysis in business settings.

Part B

Individual project, this part is not applicable. I learned a bit about working individually, such as the value of having an advisor, time management, problem solving, self-reliance, etc. Working on a project individually leaves no room for slacking, with the entire outcome relying solely on my own work.

I would like to thank my advisor Professor Seokki Lee for all of our meetings where we were able to discuss the direction of the project. Having an advisor gave me someone that I could discuss my ideas with, in order for us to come up with the most meaningful project.