

Self-Evaluation and Reflection

In this course, I learned about many new topics and the overall work environment for a Data Scientist. I learned that when working for someone, some documents are necessary such as a business case document, project charter, scope management plan, assumption log, and software requirements specifications. These documents are important for communicating the intentions and requirements for the project being worked on to managers, executives, and whoever is funding the project. A few of the topics I learned about in this course are NLP's, Machine Learning, GAN's, Transformers, and Word Embeddings.

For our final product, we used everything above except for GAN's. We decided to use T5 as our pre-trained model and fine-tuned using a model we found on HuggingFace. We used PyTorch as our transformer and had word embeddings of our tokenized words to fine-tune our model. Word Embeddings were very interesting to learn about and I want to continue to learn more about them. Another thing I want to learn more about is Machine Learning which we will do next year. I believe that I understood what our code was doing but the topic that I struggled to understand the most was word embeddings and NLP. A strength that I have in this area is tokenization.

I'd like to say that my professional behavior in this course was excellent. Throughout the term, I only missed two or so classes and repeatedly provided what was needed on time, and well done. I was sufficient in self-management and fulfilled the role that was expected of me. When comparing what the estimate of my abilities was to my

actual performance, I feel I did underperform and needed additional practice to reach my expectations. Thankfully, there was not any conflict between team members over the course of this project, so I cannot evaluate this. Looking back, I could've spent more time on the project to help keep us on track but most of our issues were with our equipment so I don't think I could've assisted a whole lot based on what I know in that field.

My self-improvement plan for filling gaps in my knowledge and skills starts with watching more videos and doing additional research into various techniques and processes in the world of data science. After this, I will look into courses on these subjects from somewhere like HuggingFace to understand the concepts more deeply. From here, I will practice writing code until I feel comfortable doing the entire process on my own.