**Final Project**

**Business Objectives**

*Completing this project with the dataset I have chosen will help me better understand how much sea ice is lost every year and if there is a correlation to the amount lost and a certain area. This is important because the sea ice is beneficial to many types of artic animals.*

**Background**

*This project is being initiated so that I can utilize all previous knowledge I have learned at Entity and showcase it to my instructor.*

**Scope**

*A dataset with time, latitude, longitude, sea ice freeboard and sea ice thickness will be used along with RStudio, Python, Tableau and Microsoft PowerPoint. I may also need to utilize google and the knowledge of my instructor and other classmates to help with any problems that may arise during the next 6 weeks.*

**Personnel requirements**

*I am working alone on this project so all the responsibilities will fall on me to make sure this project is completed on time. I will have to work on this project any time I have available in order to meet the deadline.*

**Delivery schedule**

*Week 1- Gathering the dataset, coming up with questions & the analysis needed.*

*Week 2- Wrangle and analyze the data.*

*Week 3- Continue analyzing the data and start working on visualizing it.*

*Week 4- Continue visualizing the data and start building the presentation.*

*Week 5- Complete the presentation and start practicing giving the presentation.*

*Week 6- Presenting the final project to the instructor.*

**Other requirements**

*I may need the support of google, my classmates and the instructor to help me solve any problems that may arise during the next 6 weeks.*

**Assumptions**

*I assume that the sea ice loss will be able to be accurately calculated using machine learning and that it may be happen in one particular area more than in others. I also assume that all the products I need to utilize in order to complete this project will be functioning as normal and will not be down for extended amounts of time.*

**Limitations**

*I am limited to 6 weeks to complete this project. I will not be able to be given any more time than that.*

**Risks**

*I understand that the risks of products not working properly that may but me behind schedule but I will work late if need to so that I still complete the project in the time-frame that I have.*