

Week 1- Term Project Milestone 1

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DSC630-T302: Predictive Analysis

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Week 1- Term Project Milestone 1

This document includes the high-level **Individual Project planning** for the Term Project for DSC630.

- **Week 1- Milestone 1:**

Activities:

- Draft a high-level plan for the Project.
- Identify another project (group or individual) to perform your Milestone 2 Peer Review

In this week I will work on creating a draft of the steps required to achieve the final term project. Also, I will work on identifying another project for the milestone2 Peer review. Also, I will start to look for datasets for the project.

- **Week 2- Milestone 2:**

Activities:

- Identify Dataset and a topic.
- Identify the type of Machine learning model to be used in the Project.
- Identify Ethical Concerns and risks.
- Identify contingency plan if the original idea won't work.

In this week I will continue looking for the dataset in the first part of the week and then identify a business problem to solve. I will then identify the appropriate machine learning model to use to build the model. At this stage, I will also identify a few more datasets as a backup contingency plan if the original idea won't work. I will try to wrap up the proposal by Thursday of the week.

- **Week 3- Peer Review of Milestone2:**

Activities:

- Identify an Individual to perform Peer review of Milestone 2.
- Complete the Individual Peer evaluation form.

In this week, I will work on Identifying and completing the first peer review in the early part of the week so that I can work on the Assignment during rest of the week.

- **Weeks 4 & 5:**

During weeks 4 and 5, though there are no Project deliverables, I will utilize this time to make some progress on Milestone3 and refresh my memory on R. I will also try to utilize the Holidays (2 weeks break) to make some progress.

- **Week 6- Milestone 3:**

Activities:

- Identify the Visualizations required to answer the questions.
- Revisit the questions and the model proposal from milestone 2.
- Revisit the data requirements and explore if additional data is needed to answer the questions.

In this week, I will continue working on the milestone3 and wrap up the work from weeks 4 and 5. I will revisit the data, model selection and questions from the initial proposal and assess if any additional data is needed. I will try to finish the milestone in the early part of the week.

- **Week 7- Peer Review of Milestone3:**

Activities:

- Identify an Individual to perform Peer review of Milestone 3.
- Complete the Individual Peer evaluation form.

In this week, I will work on Identifying and completing the second peer review in the early part of the week. I may choose the same individual project or a different one that was reviewed in the previous peer review.

- **Weeks 8 and 9- Milestone 4:**

Activities:

- Data Preparation
- Build and evaluate a model.
- Interpret the results.
- Formulate the conclusion of the project and analyze the ethical impacts.

Though there are no milestones due in week 8, I would start working on milestone 4 early on and spend time on the technical work. I will start with the EDA and Data Preparation part during the early part of the week followed by the building and evaluating the model. In week 9, I will focus on interpreting the results, finalizing the conclusion of the project and the ethical impacts.

- **Week 10- Peer Review of Milestone4:**

Activities:

- Identify an Individual to perform Peer review of Milestone 4.
- Complete the Individual Peer evaluation form.

In this week, I will work on Identifying and completing the second peer review in the early part of the week. I may choose the same individual project or a different one that was reviewed in the previous peer review.

- Weeks 11 & 12- Final Project submission:

Activities:

- Finalizing the project
- Creating an audio/video presentation for the project.

I will start working on the final project in week 10 and finalize the project with the introduction, summary of the results and conclusion. In week 11, I will focus on creating the presentation and finalizing it by the end of the week. I will use week 12 as a buffer if I need extra time creating the presentation.

DSC 630 Project Plan

PERIOD	Milestone 1	Milestone 2	Milestone 2(Peer Review)	Milestone 3	Milestone 3(Peer Review)	Milestone 4	Milestone 4(Peer Review)	Milestone 5
Week1	✓							
Week2		✓						
Week3			✓					
Week4				✓				
Week5				✓				
Week6				✓				
Week7					✓	✓		
Week8						✓		
Week9						✓		
Week10							✓	✓
Week11								✓
Week12								✓

Note: I'm doing two courses this term, so I must split my time between the two classes. I will be focusing on DSC630 in the first part of the week and the other class during the other half. Also, I prefer to start the week early, so my week schedule starts from Sun-Sat instead of Mon-Sun schedule.