

Math 378 Portfolio TEMPLATE

YOUR NAME HERE

Your final product must be a rendered PDF, submitted on Gradescope. Do not submit a Quarto (.qmd) file or save an HTML file as a PDF. Do not submit a document where TEMPLATE is included in the title, YOUR NAME is given as your name, or placeholder text has not been removed - adjust all components accordingly. Make sure to provide a complete, professional product.

Remove this placeholder text and any other placeholder text in this document before submitting your work on Gradescope.

Grade Tables

AI Questionnaires

Pre-Course	Post-Course
Completed / Not Completed	Completed / Not Completed

Quizzes

Chapter	Video Quiz	Homework Quiz
Reading the Course Letter		NA
1		NA
2		
3		
4		
5		
6		
8		
10		
12		

Graded Reviews

Question	GR1	GR2	GR3
1			
2			
3			
4			
5			
6	N/A		

GR Refinements

Question	GR1 Refinement	GR2 Refinement	GR3 Refinement
1			
2			
3			
4			
5			
6	N/A		

DataCamp Courses

Course	% Completion	Letter Grade (Self-Assessed)
ChatGPT Prompt Engineering		
Introduction to Regression with statsmodels		
Supervised Learning with scikit-learn		
Machine Learning with Tree-based Models		
Intro to Deep Learning with PyTorch		
Unsupervised Learning		

GR Reflection

Provide your GR Reflection here. See the Portfolio Instructions for more details and the exact reflection requirements.

Novel Application

For this section of the portfolio, you will provide the application, including text explanations of your work and any relevant code. You will also provide a reflection on your work. See the Portfolio Instructions for more details and the exact reflection requirements.

Learning and Resources

Use this section to discuss the resources you used to complete the Novel Application. See the Portfolio Instructions for more details and the exact reflection requirements.

Application Summary

This section of the portfolio is only required at the end of the semester. Use this section to provide a detailed summary of how you applied your learning to a new data set or in a new way. See the Portfolio Instructions for more details and the exact reflection requirements.

Course Learning Goals

This section of the portfolio is only required at the end of the semester. Use this section to discuss the degree to which you have met the learning goals of Math 378 in regards to the Novel Application. See the Portfolio Instructions for more details and the exact reflection requirements.

Application Reflection

This section of the portfolio is only required at the end of the semester. Use this section to answer the provided questions about the knowledge gained from the Novel Application, the most interesting part of the application, challenges faced and how you persevered, and how you can improve your learning. See the Portfolio Instructions for more details and the exact reflection requirements.

Course Learning Goals

For this section of the portfolio, you will provide discussions that include examples demonstrating the degree to which you have met the learning goals of Math 378. Include examples from in-class work and assessments that demonstrate your level of accomplishment **and your ability to learn and improve** in these areas.

Applied Knowledge of Statistical Models

Discuss the degree to which you have met the first course learning goal: Develop an applied knowledge of traditional and computationally intensive statistical models.

Computer Programming Skills

Discuss the degree to which you have met the second course learning goal: Advance, use, and improve computer programming skills.

Independent Learning

Discuss the degree to which you have met the third course learning goal: Continue to develop the habits of mind to be an independent learner.

Self-Assessment

For this section of the portfolio, include an assessment of your learning and effort in the form of an overall letter grade based on the provided grading criteria for the course

Final Reflection

This section of the portfolio is only required at the end of the semester. You will reflect on your strengths and weaknesses, and progress toward personal goals. See the Portfolio Instructions for more details and the exact reflection requirements.

Prompt 1 - Course Learning Goals

Respond to Prompt 1 here. See the Portfolio Instructions for more details and the exact reflection requirements.

Prompt 2 - Strengths

Respond to Prompt 2 here. See the Portfolio Instructions for more details and the exact reflection requirements.

Prompt 3 - Goals

Respond to Prompt 3 here. See the Portfolio Instructions for more details and the exact reflection requirements.

Documentation

Documentation statements should be detailed and specific, including the name of cadets who assisted you and how they helped. Any outside resources used for the Novel Application (e.g., websites, journal articles, coding assistance, etc.) must be documented and proper citations provided.

Make sure to provide citations and/or links to your learning sources (online learning courses such as a DataCamp skills track, journal articles, websites, etc.) for the Novel Application.

If using an LLM such as ChatGPT, you must detail how the resource was used. See the Portfolio Instructions for the five part documentation statement required for use of an LLM or other generative AI.

Additional Materials - OPTIONAL

If needed, you should provide any additional evidence supporting your claims of learning in the course. This should be a separate PDF document. Additional evidence might include a Statement of Accomplishment or other certificate of completion for additional online learning courses, selected excerpts from LLM transcripts to demonstrate your learning in a particular area, or additional code/models/figures for the Novel Application, just to name a couple of examples.