

# DTSC670: Foundations of Machine Learning Models

## Assignment 3

### CodeGrade

Please note that this assignment will be manually graded. **You will have one attempt at submitting this assignment.**

Since we are merely using CodeGrade for this assignment as a platform to manually grade assignments, CodeGrade will not execute your code for this assignment. Rather, it simply renders your Jupyter Notebook in the web browser. Therefore, any code blocks that generate output must be fully executed within the notebook prior to submission. Otherwise, we will not see the output of your code!

### Directions

Complete the assignment3.ipynb file; further directions are located in that file.

Below is a simple rubric indicating how you will be graded:

#### **Clarity and Comments 10%**

How organized is your notebook? Do you have enough comments? Are the meanings of the computations clear?

#### **Figure Creation and Plotting 50%**

Were you able to successfully plot the data in the required figures? Did you label your axes and use the correct color scheme? Did you plot all four subplots?

#### **Model Fitting 15%**

Were you able to successfully fit the model to the data?

#### **Curve Fitting and Plotting 20%**

Were you able to successfully plot the line of best fit in all subplots of the second required figure?

#### **True Model Parameters Inference 5%**

Were you able to successfully infer the true model parameters?