

# **DTSC680: Applied Machine Learning**

## **Module 5**

### **Assignment 7**

#### **Directions**

Complete the Assignment\_7.ipynb file; further directions are located in that file.

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

#### **Import, Standardize, and Split Data 5%**

Were you able to successfully import, normalize, and split the data into a training and test set?

#### **Plotting Data 10%**

Were you able to properly plot the training data?

#### **Neural Network Construction 30%**

Were you able to successfully build and train a neural network on the training data?

#### **Plot Model Predictions for Training Set 50%**

Were you able to successfully visualize the model's predictions for the training data?

#### **Compute Generalization Error 5%**

Were you able to successfully compute the generalization error for the testing data?