

# **DTSC670: Foundations of Machine Learning Models**

## **Assignment 6**

### **Directions**

Complete the Assignment\_6.ipynb file; further directions are located in that file.

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

#### **Predict Function 10%**

Were you able to successfully create the predict function and make the correct predictions?

#### **Model Accuracy and Error Rate Functions 10%**

Were you able to successfully create the functions to compute the model accuracy and model error? Were you able to successfully invoke these functions using the proper input data?

#### **Precision and Recall Function 30%**

Were you able to successfully create the prec\_recall\_score function, and invoke it using the proper input data?

#### **F\_beta Function 10%**

Were you able to successfully create and invoke the F\_beta function, and invoke it using the proper input data?

#### **TPR and FPR Function 10%**

Were you able to successfully create the TPR\_FPR\_score function, and invoke it using the proper input data?

#### **ROC Curve Function 30%**

Were you able to successfully create the roc\_curve\_computer function, and invoke it using the proper input data? Were you able to successfully plot the correct ROC curve?