

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

## **Assignment 7 & 8**

### **Directions**

See the Jupyter Notebooks entitled “Assignment\_7.ipynb” and “Assignment\_8.ipynb” for further instructions.

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

### **Assignments 7 and 8:**

#### **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 10%**

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?

#### **Polynomial Features Transformation 30%**

Were you able to successfully transform the data using the PolynomialFeatures class?

#### **Model Fitting 20%**

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 10%**

Were you able to successfully infer the true model parameters?