**ECE 8527: Introduction to  
Machine Learning and Pattern Recognition**

# HW No. 7: Linear Discriminant Analysis

This assignment is simple ☺

Repeat HW #3 but use linear discriminant analysis to classify the data. Hopefully, if your code for HW #3 was written in a modular fashion, you will be able to reuse most of your code, and simply swap training and classification modules.

How does this performance compare to HW #3? Justify your findings.

Be sure to include a table that compares performance for class-independent PCA, class-dependent PCA and LDA. It should show performance on both the training set (closed loop) and the evaluation set. Make sure you do not use the evaluation data to train your classifier.

Also, make sure all entries in your table show percentages and use EXACTLY two decimal points of precision.