

# **CS5486 Intelligent Systems**

## **Assignment 1**

1. Program using MATLAB or any other codes to simulate the Perceptron with bipolar activation functions and ADALINE to classify OR and XOR data of two variables. Show the convergence behaviors graphically and your codes.
2. Use MATLAB Neural Networks toolbox or your own program to simulate a multilayer Perceptron with unipolar sigmoid activation functions and a radial basis function network with Gaussian function for classifying XOR data of two variables. Show your detailed results (i.e., convergence behaviors and output values for all four training samples).

Due by Mar 13, 2025.