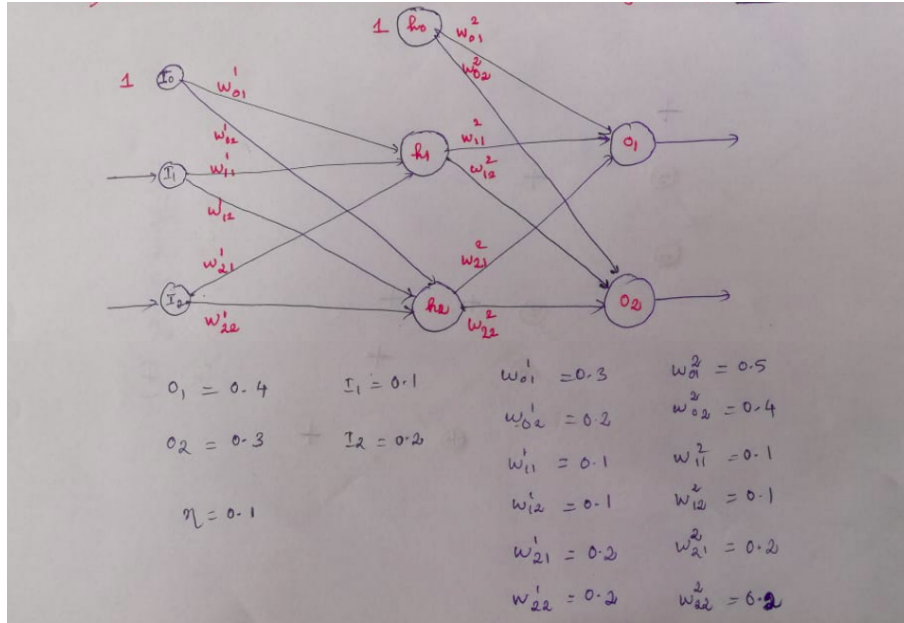


Pattern Recognition (COM511)

Assignment - 4 - Coding: Matlab/Python

Submission Deadline: June 21

1. Design a feed forward neural network using backpropagation algorithm.
 - a) Calculate the first iteration by hand using sigmoid as the activation function.
 - b) Code the same until convergence by using tanh as the activation function.



2. Design a feed forward neural network to perform classification on the Iris dataset using backpropagation algorithm. Train the model and test it.
3. Design, train, and test a neural network to classify whether a given text message is a spam or not.