

EECE 371- Embedded Learning Systems

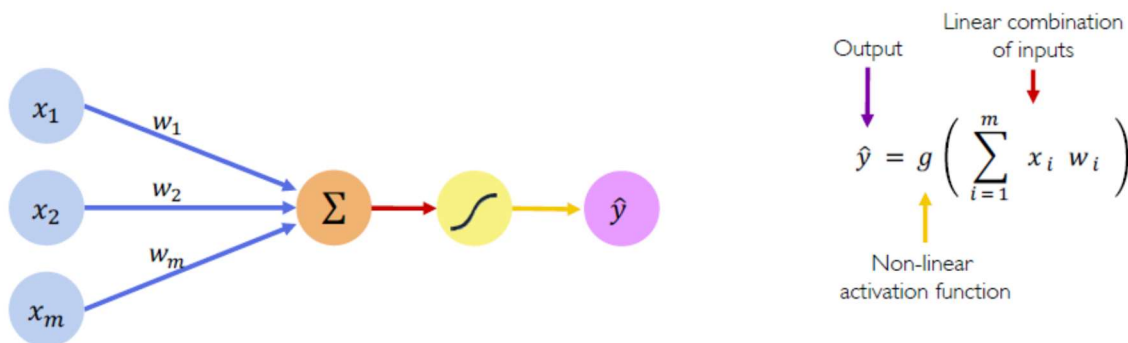
Due date: Wed., March 24th 2019

5 points

Design Python (Or a language of your preference) Perceptron Model which has the following specifications to solve the XOR problem

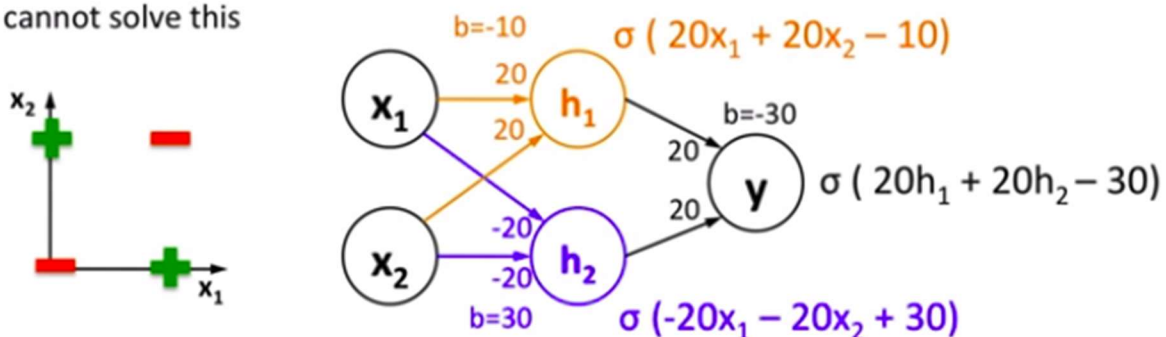
The perceptron function takes the inputs, multiplies them by the group of weights, sum them together and feed them to the activation function as shown in the figure below.

Optional : (Try to build the code in a way to be modular and able to represent it in matrices form if possible)



The XOR model is shown below.

Linear classifiers cannot solve this



- Assume the weights and biases as a random value and build an algorithm to optimize their values until a solution is found.