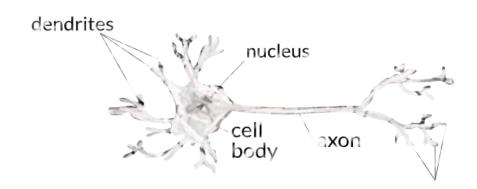
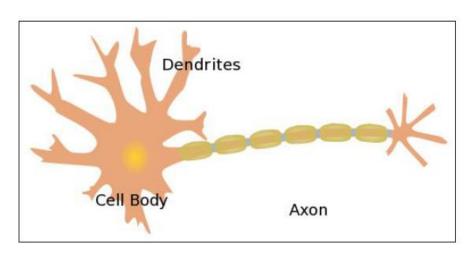
CLASSIFICATION

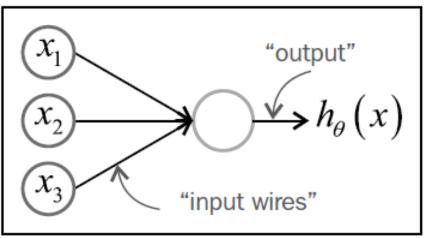
Perceptron - Binary Classification





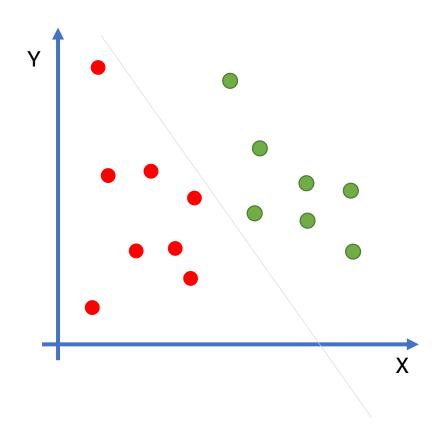
Primitive Neural network







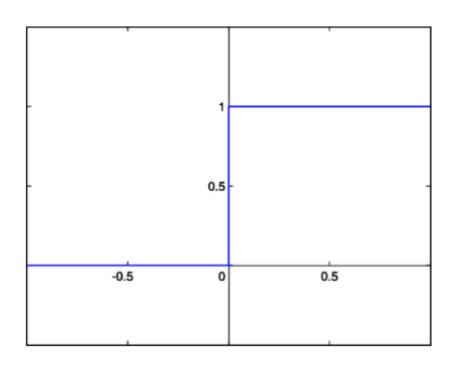
Binary Classification using Perceptron





Perceptron Nodes

Heaviside Step Function



$$g(x) = \begin{cases} 1, & if \ x > 0 \\ 0 & elsewhere \end{cases}$$



Basic Two Input Perceptron

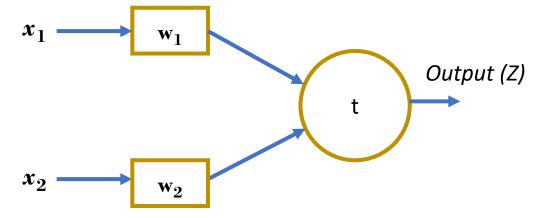
X1, X2 = Inputs

W1, W2 = Input weights

t = Threshold

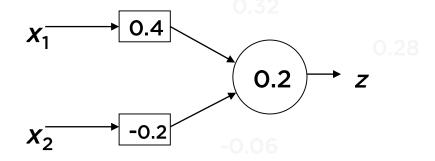
= Activation Function)

Z = Output (Binary)

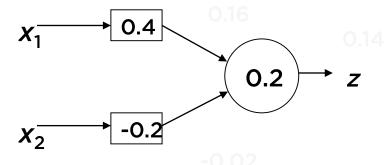




Example 1

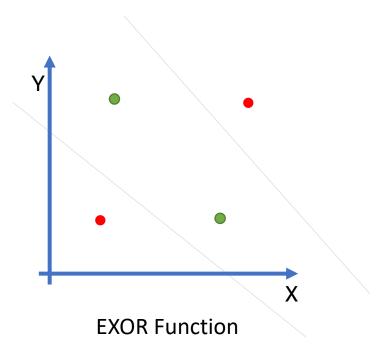


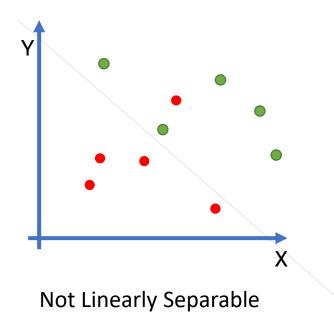
X1	X2	Т
0.8	0.3	1
0.4	0.1	0





Problems







Neural Network

