



# SNS COLLEGE OF TECHNOLOGY

AN AUTONOMOUS INSTITUTION

COIMBATORE 35

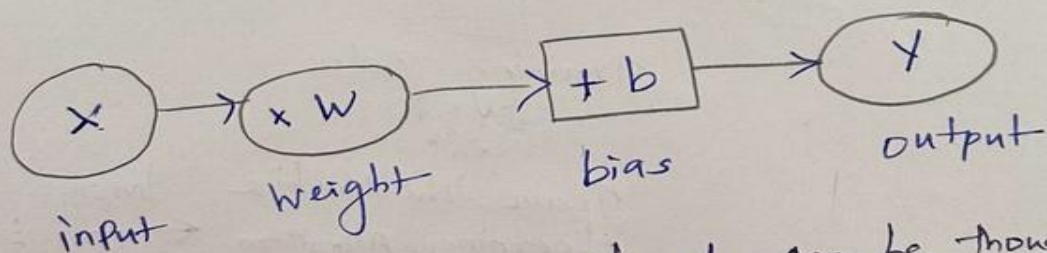


DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

## Weight Space

It's the parameter within a neural network that transforms input data within the network's hidden layers. A neural network is a series of nodes or neurons.

Within each node is a set of inputs, weight and bias value. As an input enters the node it gets multiplied by a weight value and the resulting output is either observed, or passed to the next layer in the neural network. Often the weights of a neural network are contained within the hidden layer of the network.



Weight on the other hand, can be thought of as the strength of the connection. Weight affects the amount of influence a change in the input will have upon the output.

A low weight value will have no change on the input and alternatively a larger weight value will more significantly change the output.