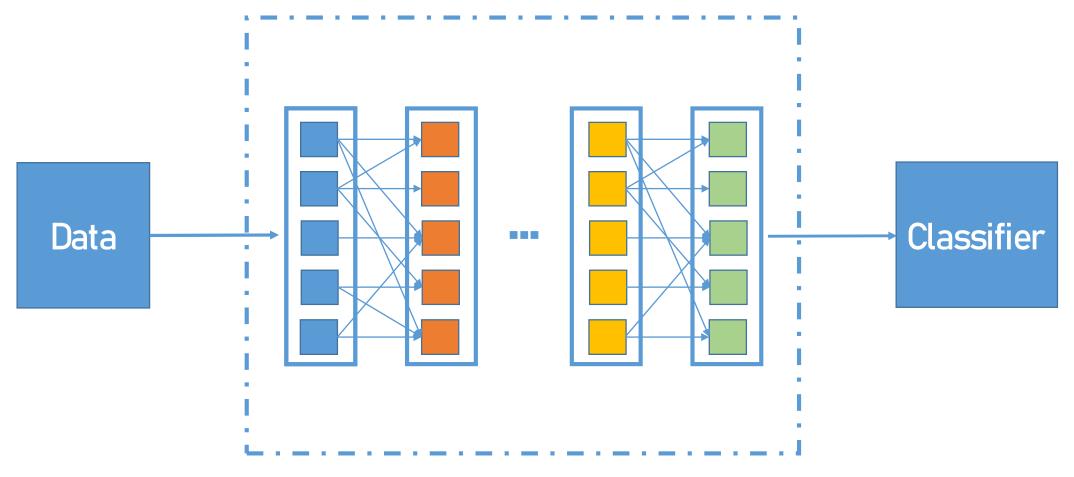
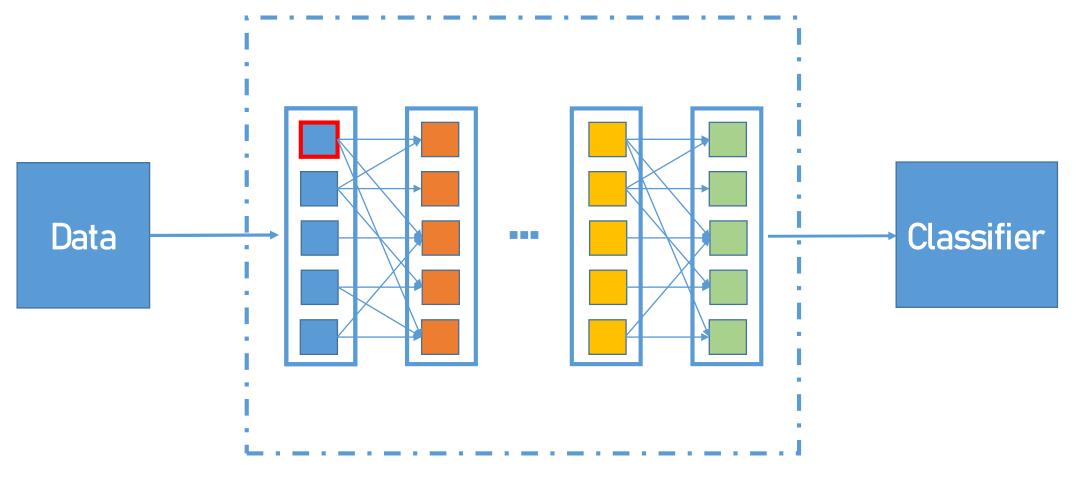
# What is a Neuron?

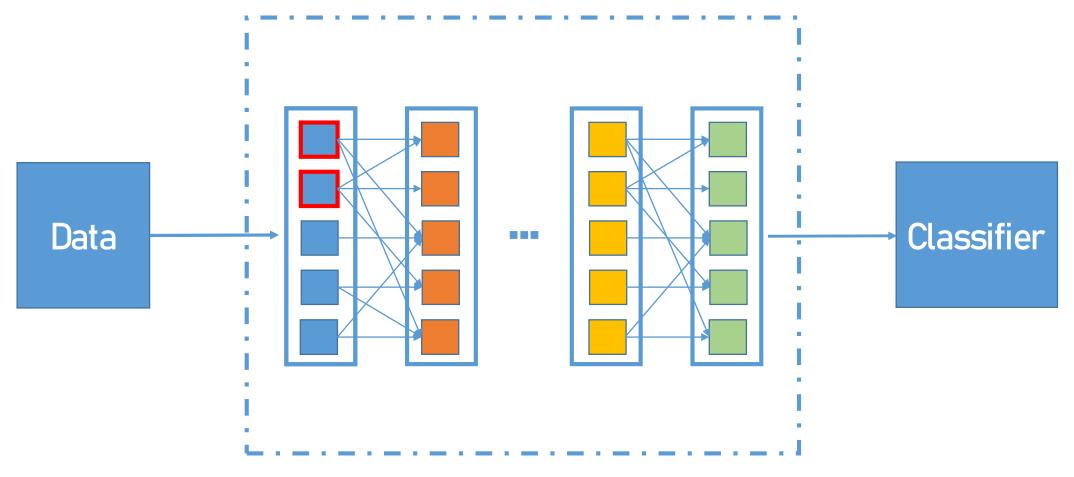




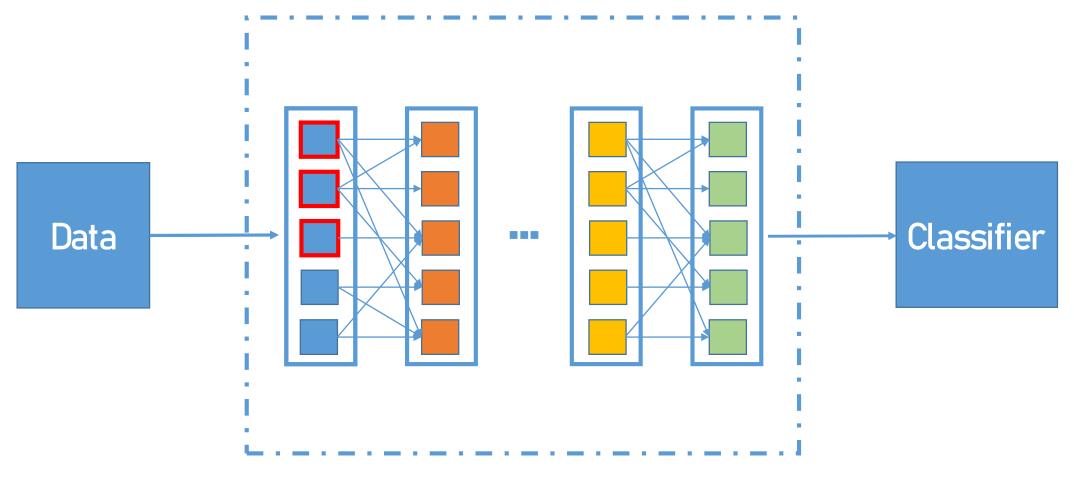








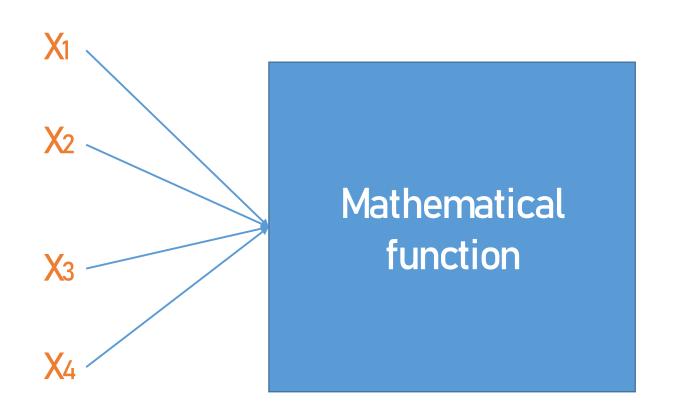




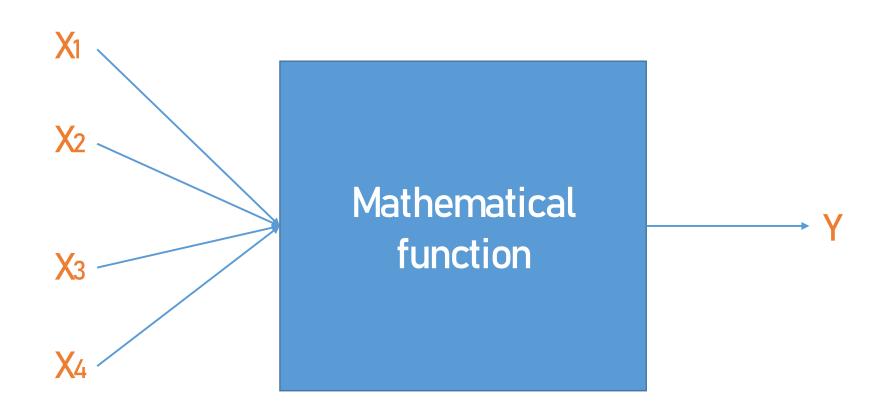


Mathematical function

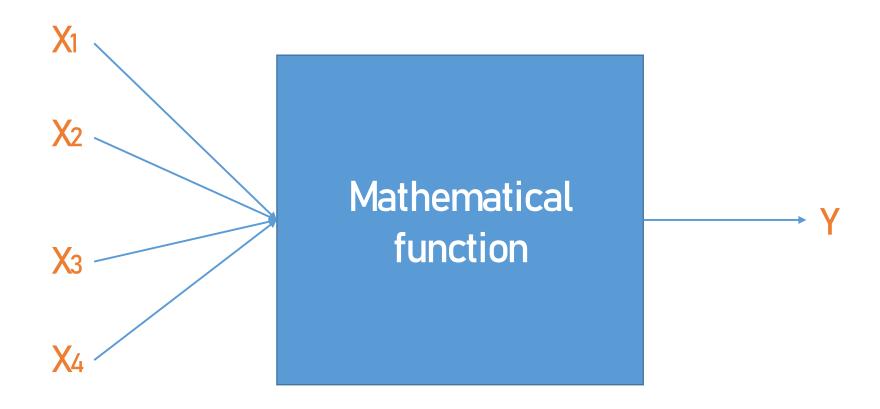






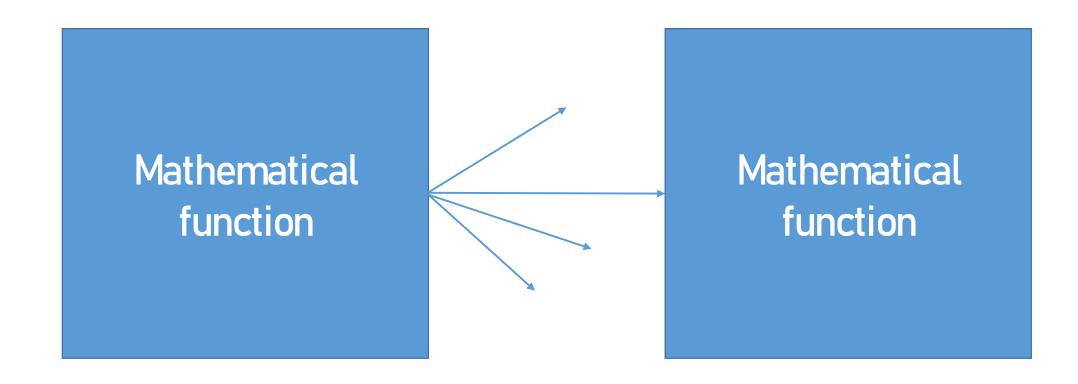




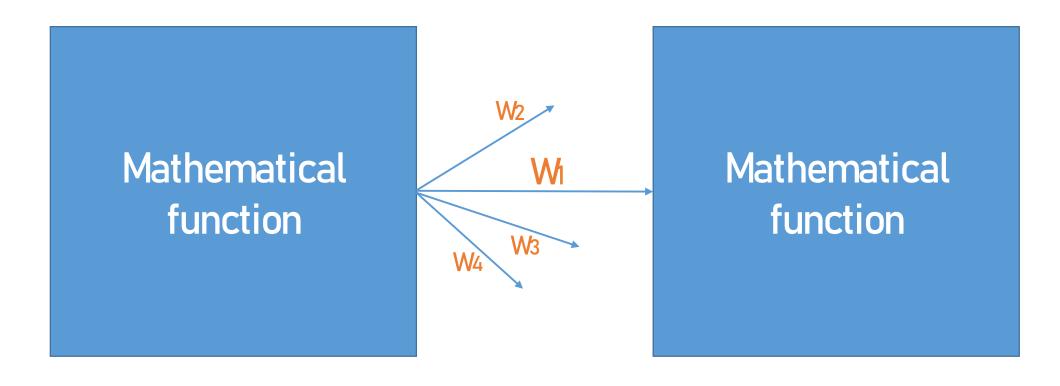


For any change in inputs there should be a change in the outputs



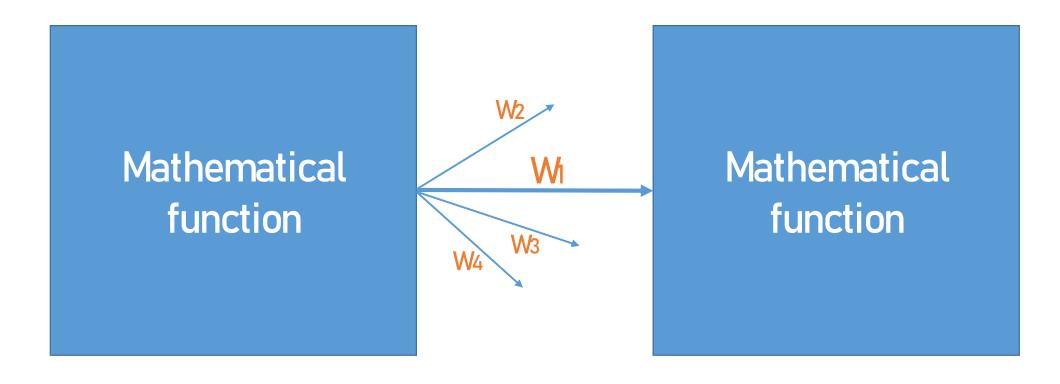


Output of a neuron in layer N-1 is connected to neurons in layer N



Each connection between neurons contain a weight

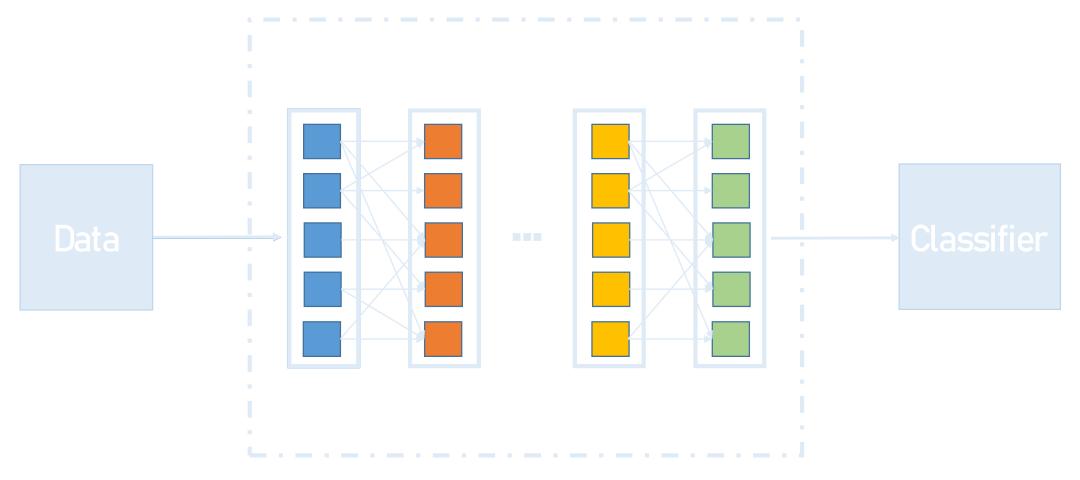




Wincreases if the connection between two neurons is stronger



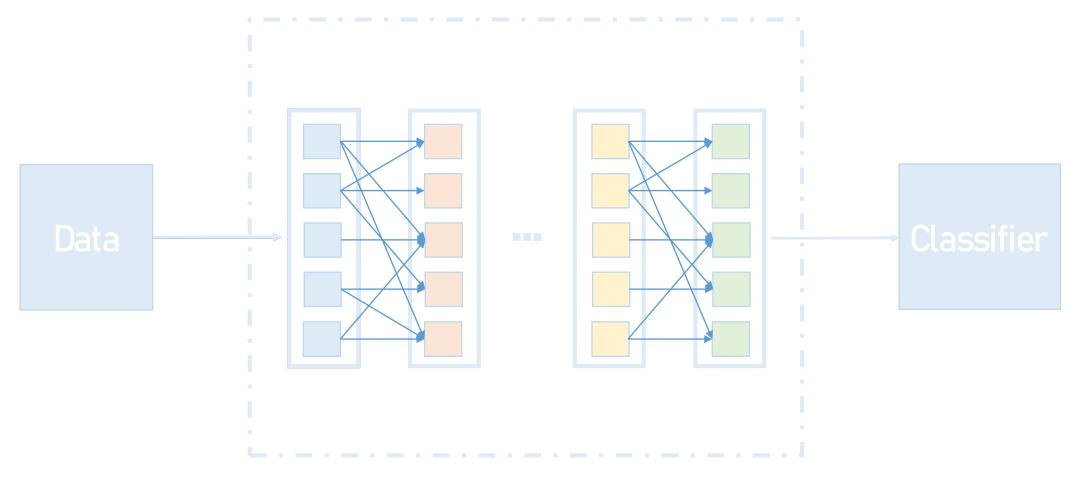
### The Computation Graph



In the computation graph of neural networks, nodes are the neurons



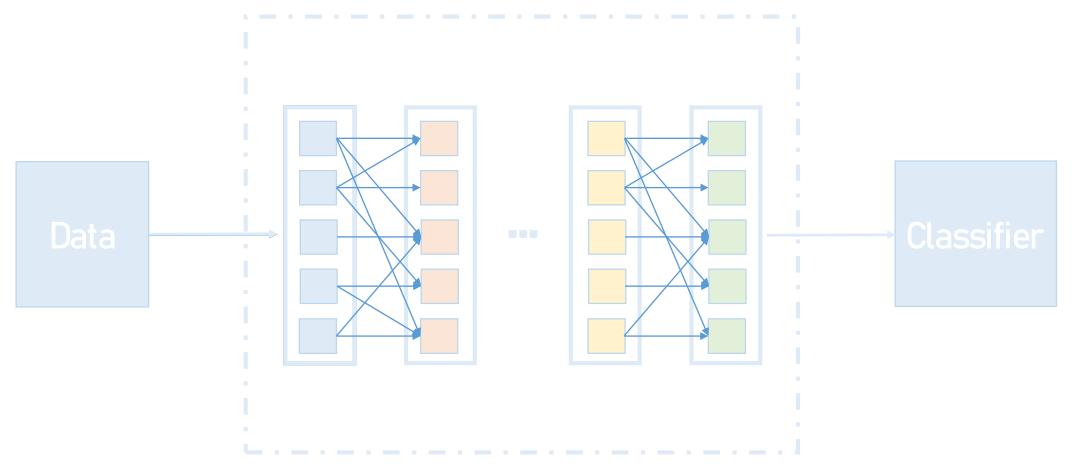
## The Computation Graph



In the computation graph of neural networks, edges are the tensors



## The Computation Graph



Once a neural network is trained the weights associated with edges help in predictions



