

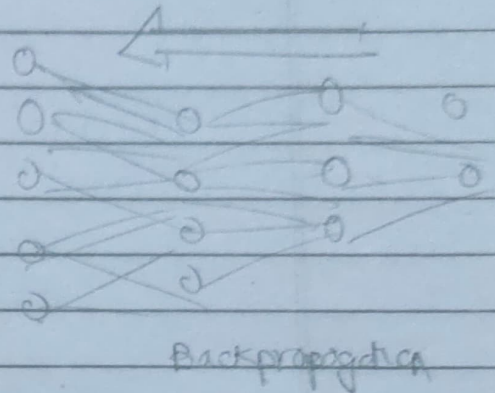
01/03/2012

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(Q8)

Back propagation Neural Network

① Backpropagation = process of fine tuning the weights of a neural net base on the error rate (i.e. loss) obtained in previous epoch (i.e. iteration)



Proper tuning of weights ensures ① lower error rates

② making model reliable by increasing its generalization.

② We need activation function \rightarrow determining activation value at every node

& hypothesis function
& loss function

& calculate deltas in back propagation

④ We do delta calculation, step at every unit, back-propagating the loss into the neural net & finding out what loss every node/unit is responsible for

⑤ Update the weights