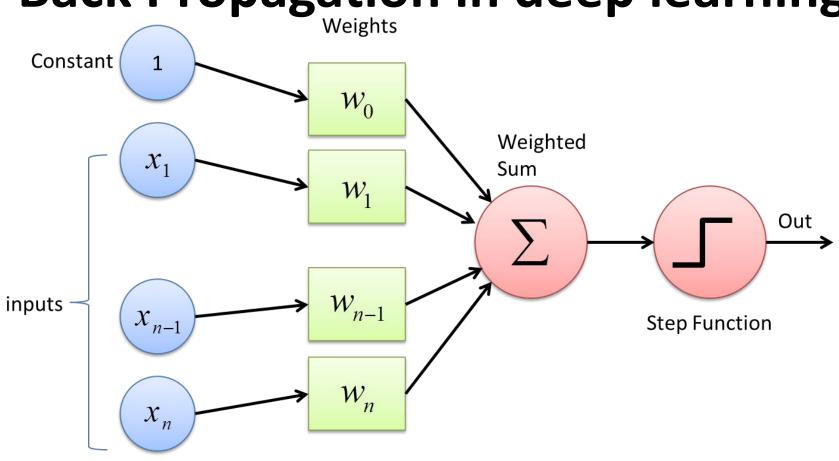
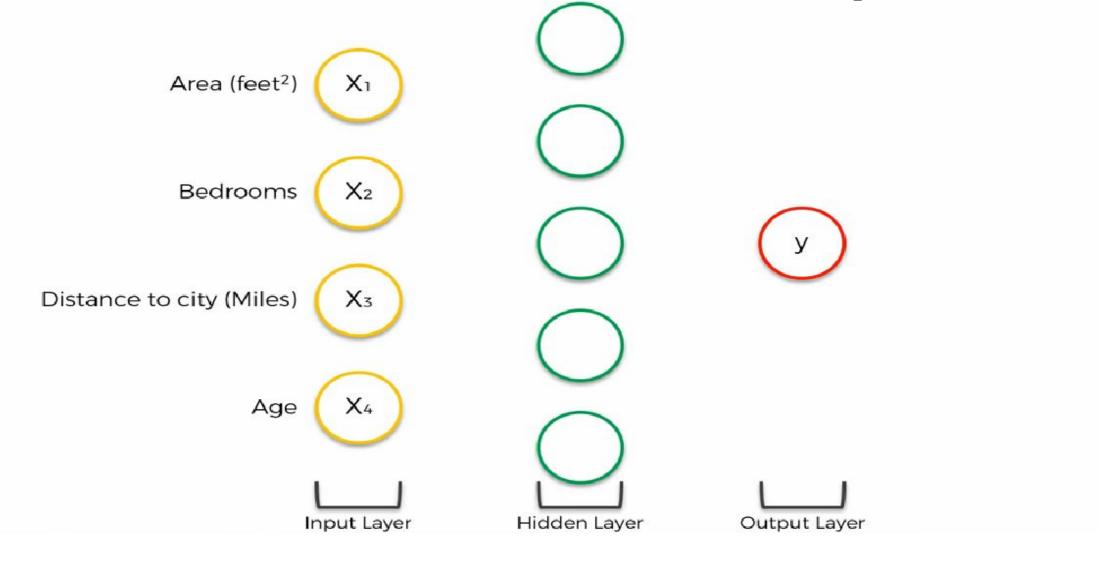
Deep Learning from Scratch

Theory + Practical

How Neural Network Work and Back Propagation in deep learning



How Neural Network Work with many neurons

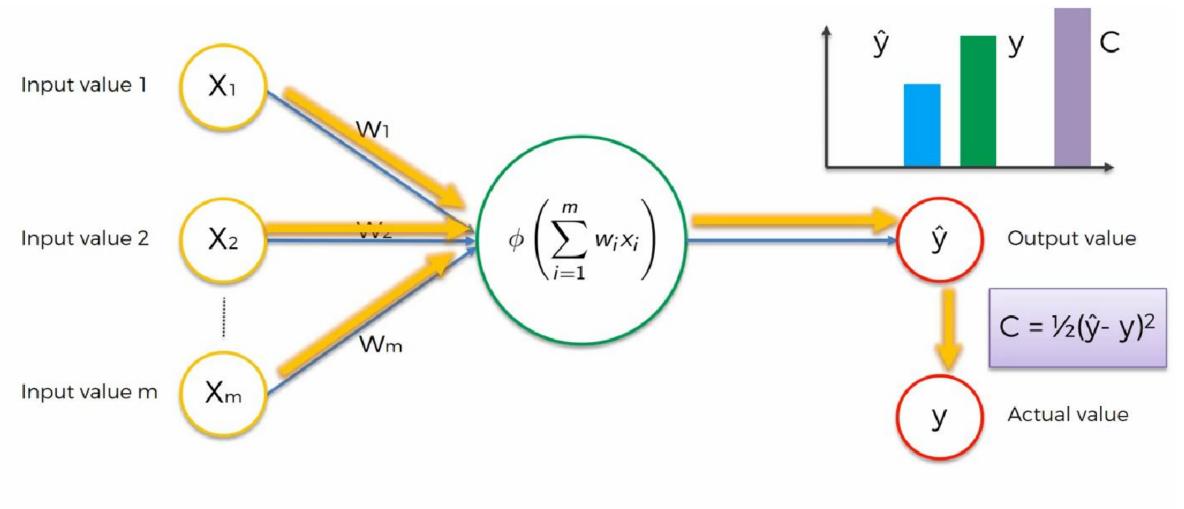


Back Propagation in deep learning

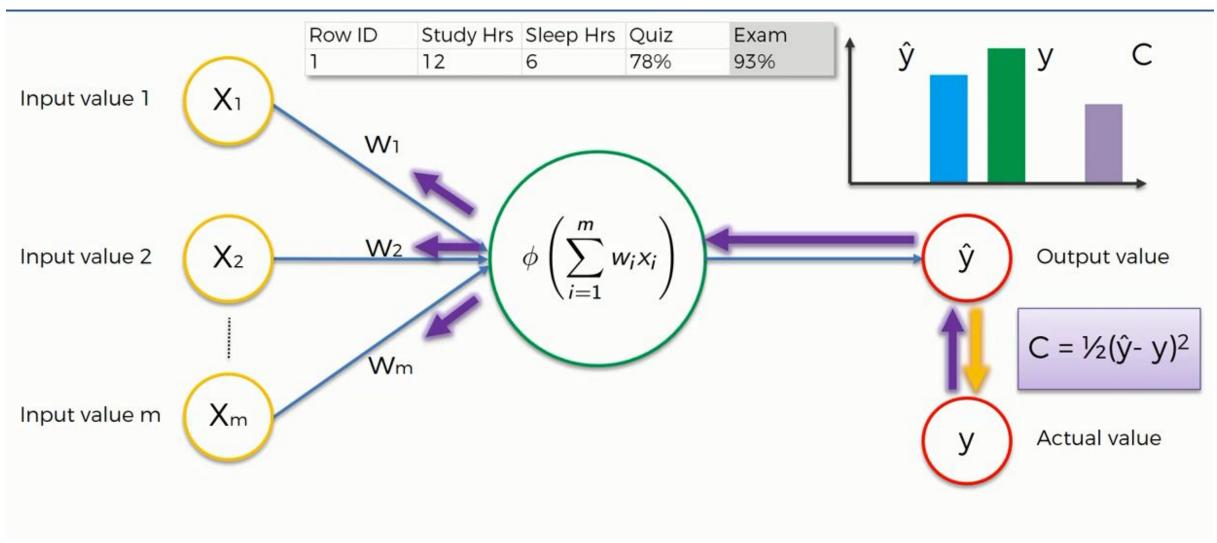
Back-propagation is the essence of neural net training. It is the method of fine-tuning the weights of a neural net based on the error rate obtained in the previous epoch (i.e., iteration). Proper tuning of the weights allows you to reduce error rates and to make the model reliable by increasing its generalization.

Backpropagation is a short form for "backward propagation of errors." It is a standard method of training artificial neural networks. This method helps to calculate the gradient of a loss function with respects to all the weights in the network.

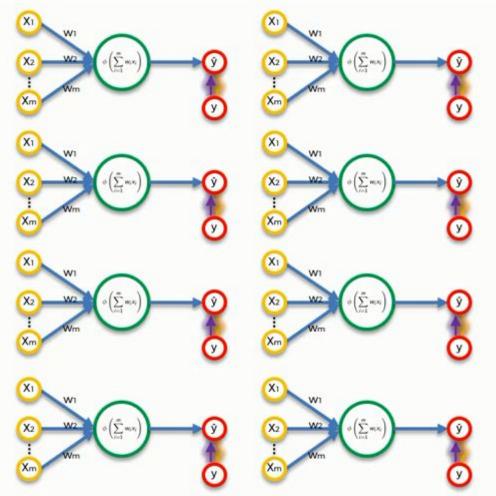
Back Propagation in deep learning



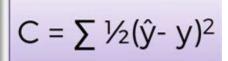
Back Propagation in deep learning

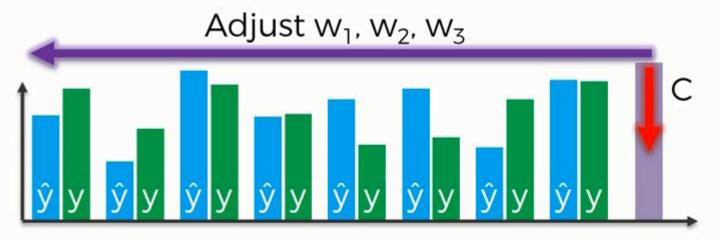


Back Propagation in deep learning (epoch)



Row ID	Study Hrs	Sleep Hrs	Quiz	Exam
1	12	6	78%	93%
2	22	6.5	24%	68%
3	115	4	100%	95%
4	31	9	67%	75%
5	0	10	58%	51%
6	5	8	78%	60%
7	92	6	82%	89%
8	57	8	91%	97%





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https://stats.stackexchange.com/questions/154879/a-list-of -cost-functions-used-in-neural-networks-alongside-applicati ons