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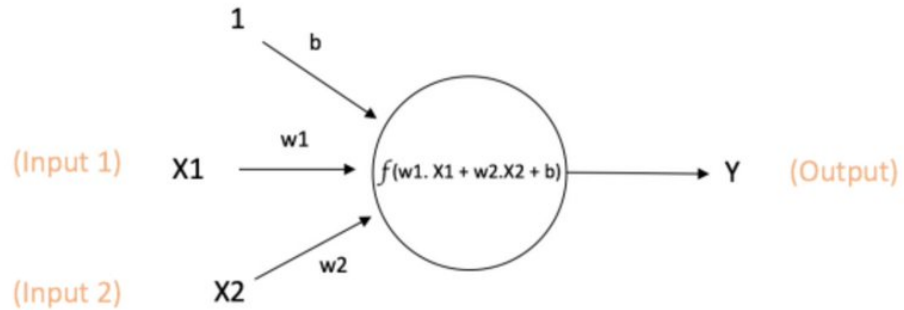
Neural Network For Beginners. #BigData #Analytics #DataScience #AI #MachineLearning #IoT #IIoT #PyTorch #Python #RStats #TensorFlow #Java #JavaScript #ReactJS #GoLang #CloudComputing #Serverless #DataScientist #Linux #Programming #Coding #100DaysofCode https://t.co/BYeOyVpPXP

A Perceptron takes several binary inputs,x1,x2,…., and produces a single binary output.



Output of neuron = Y= f(w1. X1 + w2.X2 + b)

So you can see that we have got 3 inputs x1,x2 and all of these have got random weight “w0,w1,w2” and the output will be the sum of “x*w1+w2+b” and we add bias in this. This is how a perceptron works.

$$y = \begin{cases} 0 & (w_1 x_1 + w_2 x_2 \leqslant \theta) \\ 1 & (w_1 x_1 + w_2 x_2 > \theta) \end{cases} \qquad (2.1)$$