

## Twitter Thread by Dr. Ganapathi Pulipaka



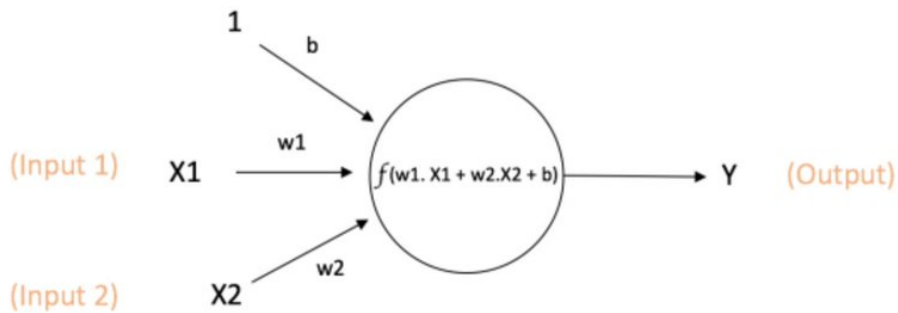
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**Neural Network For Beginners. #BigData #Analytics #DataScience #AI  
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#Linux #Programming #Coding #100DaysofCode  
<https://t.co/BYeOyVpPXP>**

A Perceptron takes several binary inputs,  $x_1, x_2, \dots$ , and produces a single binary output.



$$\text{Output of neuron} = Y = f(w_1 \cdot X_1 + w_2 \cdot X_2 + b)$$

So you can see that we have got 3 inputs  $x_1, x_2$  and all of these have got random weight " $w_0, w_1, w_2$ " and the output will be the sum of " $x \cdot w_1 + w_2 + b$ " and we add bias in this. This is how a perceptron works.

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