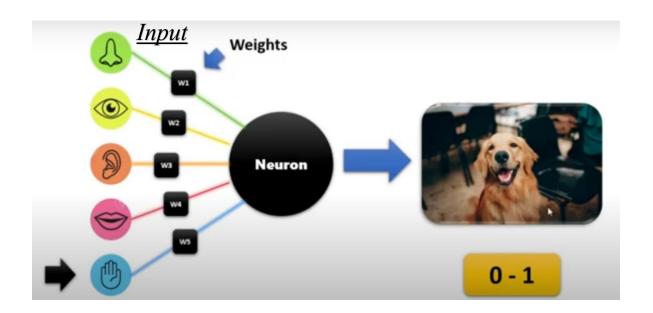
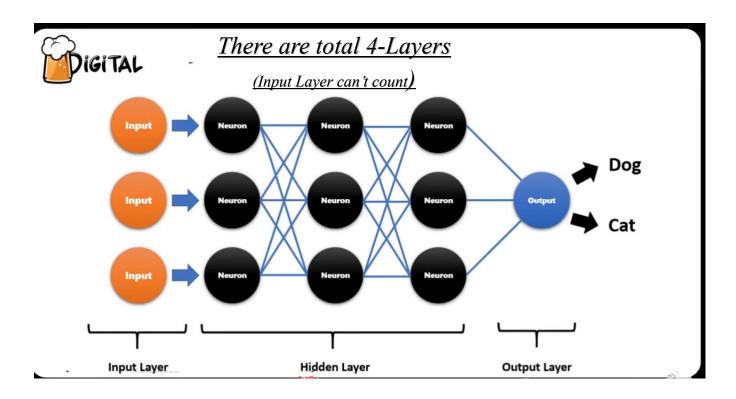
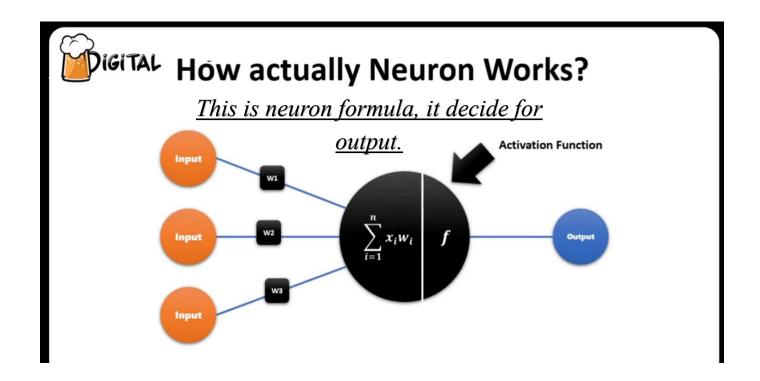
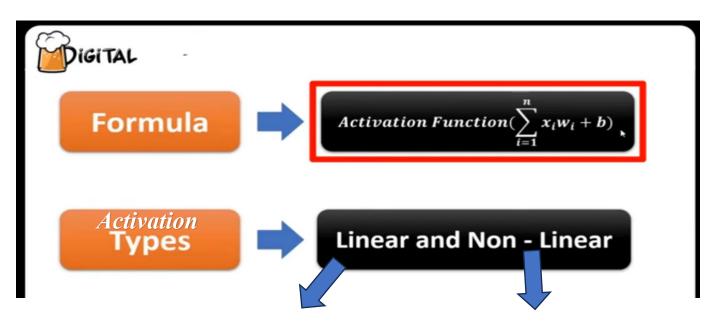
## Neuron In Deep Learning

1. https://www.youtube.com/watch?v=shsA0ZnaaBs

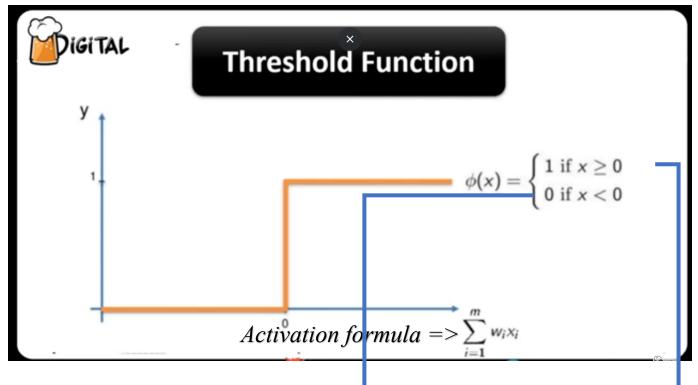






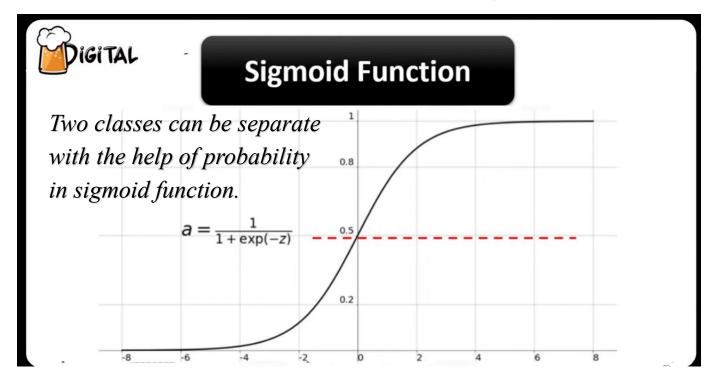


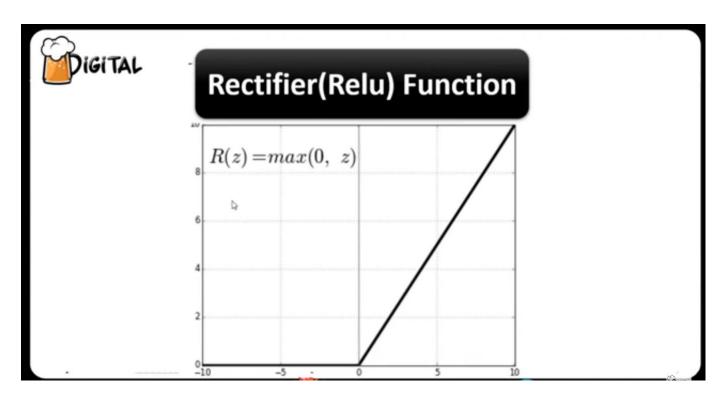
<u>Linear is a straight line that</u> <u>separate into two classes</u> Non-Linear is not a straight
line it is in the form of
cause



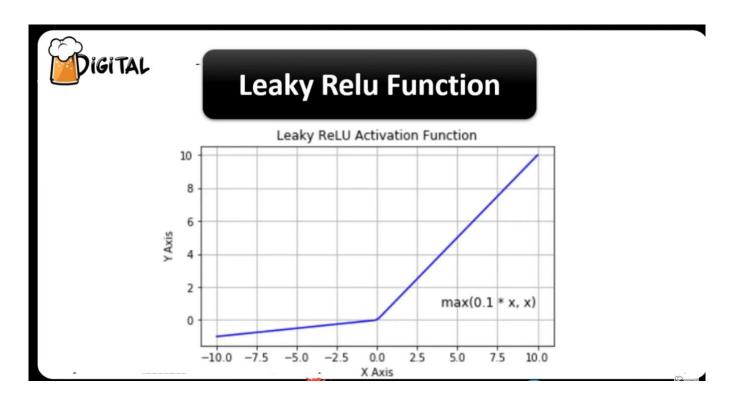
If the result of Activation formula is  $\leq 0$  then consider "0" (Cat)

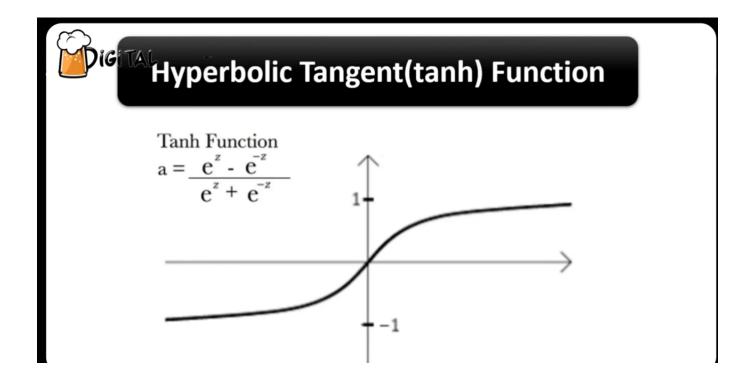
If the result of Activation formula is  $\geq 0$  then consider "1" (Dog)





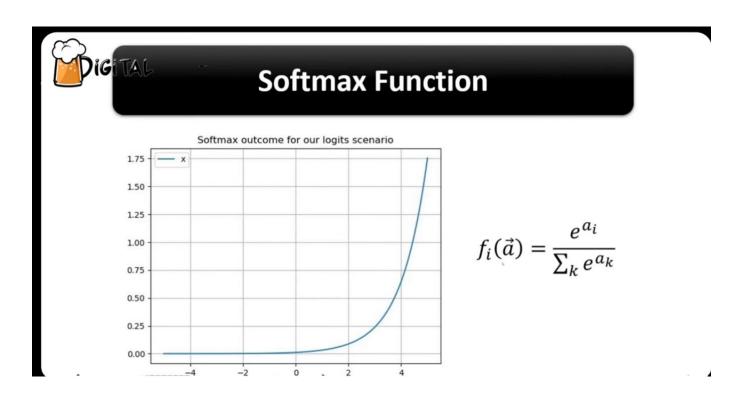
By default activation function is used is called Rectifier (Relu)Function.  $1^{st}$  we will find out the value of "z"

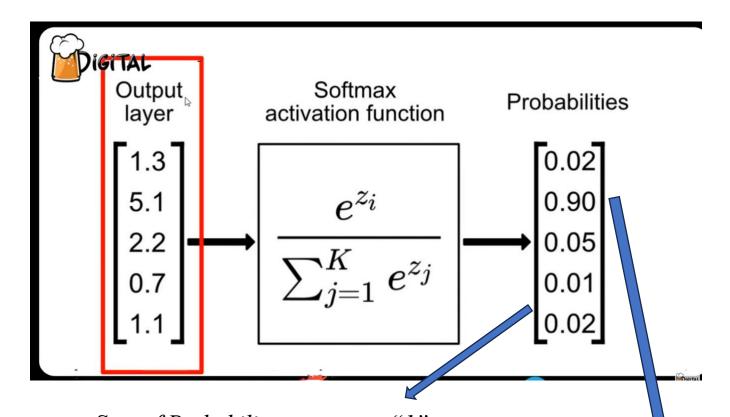




All above functions are use for differentiate b/w two classes of an object

If we have more than two classifications of an object then we will use "Softmax Function"





Sum of Probability must come "1"

Max probability is a final Result. (here max prob. Is "0.90"

## https://www.youtube.com/watch?v=CSNdNsFCpTk

What is the Role of the Bias in Neural Networks? || Deep Learning in Hindi

