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ML UW Certificate – Deep Learning – Assignement 1

Perceptron:

AND

OR

XOR

With a simple perceptron with no bias only the function OR can be modeled properly.

The AND function is not properly trained as it provides weight coefficients [1,1] that only work for the cases [0,0] and [1,1]

The XOR function cannot be trained as the weight coefficients from the training are [0,0].

To properly define perceptron model we need to use model where we introduce a bias.

The XOR function is more involving as it need several layers:

Une image contenant texte

Description générée automatiquement