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Q1) Explain Hebb learning using an example?

Ans: i) Hebbian learning sule also known as Hebb learning

rule was proposed by Donald o Hebb. ii) It is the one of the first and easiest learning

rule in the natural network. It is used for pattern

clossification and toog to

input layer and one output layer.

iv) The input layer con have mony units say on the output layer has only one unit.

v) Hebbian rolle works by updating the weights
between new rons in new of network for each training Samplemi Hint = 4 Pr mostant wan ?

Algorithm

is set all weights to zero with wi = 0 for i=0 & bios to zero

2) For each input vectors s (input vector) + (tosget output)

3) Set activations for input units with the input vector $x_i = S_i$ For i = 1 ton

4) set the corresponding input values to the output neurons.

5) applate weight & bios by applying Hebb rule for E; = 1 to n



