Hw 5

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Perceptron Leaning Example - Funtion AND

Bias Input x_0 = +1
Alpha = 0.5
w_0 = 0.5 , w_1 = 0.5 , w_2 = 0.5

Input x_1	Input x_2	$1.0 \cdot w_0$	$x_1 \cdot w_1$	$x_2 \cdot w_1$	Net Sum Input	Target Output	Actual Output	Alpha* Error	Weight Values w_0	w_1	w_2
0	0	0.0	0.5	0.5	0.5	0	1	-1	0.0	0.5	0.5
0	1	-0.5	0.5	0.0	0.5	0	1	-1	-0.5	0.5	0.0
1	0	-1.0	0.0	0.0	0.0	0	1	-1	-1.0	0.0	0.0
1	1	-0.5	0.5	0.5	-1.0	1	0	1	-0.5	0.5	0.5
0	0	-0.5	0.5	0.5	-0.5	0	0	0	-0.5	0.5	0.5
0	1	-1.0	0.5	0.0	0.0	0	1	-1	-1.0	0.5	0.0
1	0	-1.0	0.5	0.0	-0.5	0	0	0	-1.0	0.5	0.0
1	1	-0.5	1.0	0.5	-0.5	1	0	1	-0.5	1.0	0.5
0	0	-0.5	1.0	0.5	-0.5	0	0	0	-0.5	1.0	0.5
0	1	-1.0	1.0	0.0	0.0	0	1	-1	-1.0	1.0	0.0
1	0	-1.5	0.5	0.0	0.0	0	1	-1	-1.5	0.5	0.0
1	1	-1.0	1.0	0.5	-1.0	1	0	1	-1.0	1.0	0.5
0	0	-1.0	1.0	0.5	-1.0	0	0	0	-1.0	1.0	0.5
0	1	-1.0	1.0	0.5	-0.5	0	0	0	-1.0	1.0	0.5
1	0	-1.5	0.5	0.5	0.0	0	1	-1	-1.5	0.5	0.5
1	1	-1.0	1.0	1.0	-0.5	1	0	1	-1.0	1.0	1.0
0	0	-1.0	1.0	1.0	-1.0	0	0	0	-1.0	1.0	1.0
0	1	-1.5	1.0	0.5	0.0	0	1	-1	-1.5	1.0	0.5
1	0	-1.5	1.0	0.5	-0.5	0	0	0	-1.5	1.0	0.5
1	1	-1.5	1.0	0.5	0.0	1	1	0	-1.5	1.0	0.5
0	0	-1.5	1.0	0.5	-1.5	0	0	0	-1.5	1.0	0.5
0	1	-1.5	1.0	0.5	-1.0	0	0	0	-1.5	1.0	0.5
1	0	-1.5	1.0	0.5	-0.5	0	0	0	-1.5	1.0	0.5
1	1	-1.5	1.0	0.5	0.0	1	1	0	-1.5	1.0	0.5