

Hw 5

อาทิตย์ 6 ธันวาคม

## Perceptron Learning Example - Function AND

Bias Input  $x_0 = +1$ 

Alpha = 0.5

 $w_0 = 0.5, w_1 = 0.5, w_2 = 0.5$ 

Input	Input				Net Sum	Target	Actual	Alpha*	Weight Values		
$x_1$	$x_2$	$1.0 \cdot w_0$	$x_1 \cdot w_1$	$x_2 \cdot w_1$	Input	Output	Output	Error	$w_0$	$w_1$	$w_2$
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