กฎการเรียนรู้เพอร์เซปตรอน

start at $w_i = 0.5$; i = 0, 1, 2Perceptron Learning Example - Function AND x = net sum $f(x) = \begin{cases} 1 \ ; x \ge 0 \\ 0 \ ; x < 0 \end{cases}$ $w_{i(new)} = w_{i(old)} + \alpha(t - o)x_i$ Bias Input X0 = +1 Alpha = 0.5 Weight Weight Values Input Net Sum Tarket Actual Alpha* x0 x1 x2 x0*w0 x1*w1 x2*w2 Input Output Output Error w0 w1 w2 α (t-o) 0.5 0.5 0.5 t 0 1 0 0 0.5 0 0 0.5 0 1 -0.5 0 0.5 0.5 0.5 1 0 1 0 0 0.5 0 1 -0.5 -0.5 0.5 0 1 1 0 -0.5 0.5 0 0 0 1 -0.5 -1 0 0 1 1 1 -1 0 0 -1 1 0 0.5 -0.5 0.5 0.5 1 0 0 -0.5 0 0 -0.5 0 0 0 -0.5 0.5 0.5 1 0 1 -0.5 0 0.5 0 0 1 -0.5 -1 0.5 0 1 0 0.5 0 -0.5 0 0 0 0 1 -1 -1 0.5 1 1 1 -1 0.5 0 -0.5 0 0.5 -0.5 0.5 1 1 0 0 -0.5 0 0 -0.5 0 0 0 -0.5 1 0.5 1 0 1 -0.5 0 0.5 0 0 1 -0.5 -1 1 0 1 1 0 -1 1 0 0 0 1 -0.5 -1.5 0.5 0 1 1 1 -1.5 0.5 0 -1 1 0 0.5 -1 1 0.5 1 0 0 -1 0 0 -1 0 0 0 -1 1 0.5 1 0 1 -1 0 0.5 -0.5 0 0 0 -1 1 0.5 1 1 0 -1 1 0 0 0 1 -0.5 -1.5 0.5 0.5 1 1 1 -1.5 0.5 0.5 -0.5 1 0 0.5 -1 1 1 1 0 0 -1 0 0 -1 0 0 0 -1 1 1 1 0 -1 0 0 0 1 -0.5 -1.5 0.5 1 1 1 0 1 1 0 -1.5 1 0 -0.5 0 0 -1.5 1 0.5 -1.5 0.5 0 0 -1.5 0.5 1 1 1 1 1 1 1 0 0 -1.5 0 0 -1.5 0 0 0 -1.5 1 0.5 1 0 1 -1.5 0 0.5 -1 0 -1.5 1 0.5 1 1 0 -1.5 1 0 -0.5 0 0 0 -1.5 1 0.5 -1.5 0.5 0 0 -1.5 0.5 1 1 1

	Actual Positive	Actual Negative
Tarket Positive	TP	FP
Tarket Negative	FN	TN

	Actual Positive	Actual Negative
Tarket Positive	1	0
Tarket Negative	0	3
	1	3

Accuracy (TP + TN) / All

Accuracy = 1

100%

Recall TP / (TP + FN)

Recall = 1

100%

 $Precision \qquad TP \, / \, (TP \, + \, FP)$

Precision = 1

100%

F Score F1 = 2PR/P + R

F1 = 1

100%