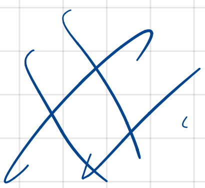
$f(z) \begin{cases} 1 \; ; \; z \geq 0 \\ 0 \; ; \; z < 0 \end{cases}$

Perceptron Learning Example - Function AND

Input x1	Input x2	Bias Input x0 = +1 1.0* w0	x1 * w1	x2 * w2	Net Sum Input	Target Output t	Actual Output O	Alpha* Error α(t-O) (Alpha = 0.5 α)	Weight Values w0	w1	w2
									0.5	0.5	0.5
0	0	0.5	0	0	0.5	0	1	-0.5	0.5+(-0.5×1)=0	0.5+(-0.5×0)=0.5	0.5+(-0.5×0)=0.5
0	1	0	0	0.5	0.5	0	1	-0.5	0+(-0.5×1)=-0.5	0.5+(-0.5×0)=0.5	0.5+(-0.5×1)=0
1	0	-0.5	0.5	0	0	0	1	-0.5	-0.5+(-0.5×1)=-1	0.5+(-0.5×1)=0	0.5+(-0.5×0)= 0
1	1	-1	0	0	-1	1	0	0.5	-0.5	0.5	0.5
0	0	-0.5	0	0	-0.5	0	0	0	0	0.5	0.5
0	1	-0.5	0	0.5	0	0	1	-0.5	-0.5	0.5	0
1	0	-1	0.5	0	-0.5	0	0	0	0	0.5	0
1	1	-1	0.5	0	-0.5	0	0	0.5	0.5	1	0.5
0	0	-0.5	0	0	-0.5	0	0	0	-0.5	1	0.5
0	1	-0.5	0	0.5	0	0	1	-0.5	-1	1	0
1	0	-1	1	0	0	0	1	0.5	-1.5	0.5	0
1	1	-1.5	0.5	0	-1	1	0		-1	1	0.5
0	0	-1	0	0	-1	0	0	0	-1	1	0.5
0	1	-1	0	0.5	-0.5	0	0	0	-1	1	0.5
1	0	-1	1	0	0	0	1	-0.5	-1.5	0.5	0.5
1	1	-1.5	0.5	1.5	-0.5	1	0	0.5	-1	1	1
0	0	-1	0	0	-1	0	0	0	-1	1	1
0	1	-1	0	1	0	0	1	-0.5	-1.5	1	0.5
1	0	-1.5	1	0	-0.5	0	0	0	-1.5	1	0.5
1	1	-1.5	1	0.5	0	1	1	0	-1.5	1	0.5
0	0	-1.5	0	0	-1.5	0	0	0	-1.5	1	0.5
0	1	-1.5	0	0.5	-1	0	0	0	-1.5	1	0.5
1	0	-1.5	1	0	-0.5	0	0	0	-1.5	1	0.5
1	1	-1.5	1	0.5	0	1	1	0	-1.5	1	0.5

$$ACC = \frac{4+0}{4}$$
$$= 1$$
$$= 1 \times 100$$
$$= 100\ \%$$



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