

The XOR Problem: Why Single-Layer Perceptrons Fail

XOR Truth Table

x_1	x_2	XOR	Output
0	0	0 XOR 0	0
0	1	0 XOR 1	1
1	0	1 XOR 0	1
1	1	1 XOR 1	0

"Same inputs = 0, Different inputs = 1"

XOR is NOT Linearly Separable

