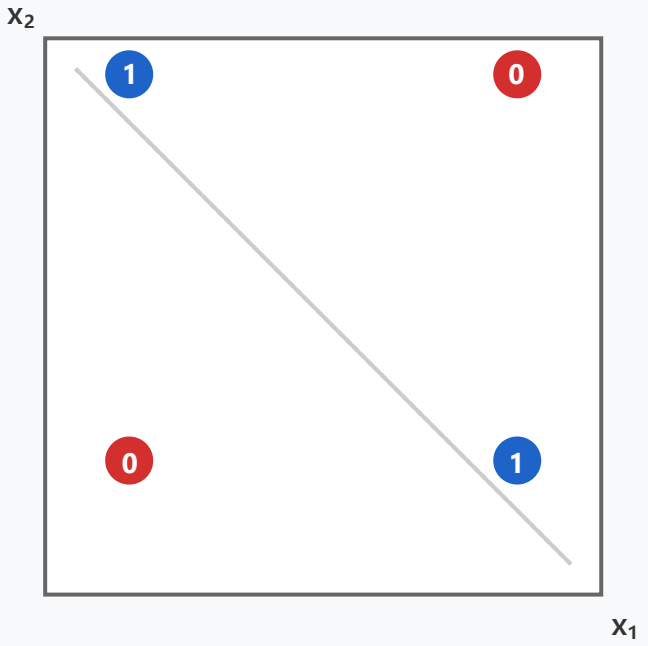
XOR Logic Gate

Truth Table

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

Key Issue: No single straight line can separate the blue and red points. This demonstrates why logistic regression cannot solve XOR.

Feature Space Visualization