

Single Neuron Computation

1. Inputs: $x_1 = 0.5$, $x_2 = 0.3$



2. Weights: $w_1 = 2.0$, $w_2 = -1.0$



3. Weighted sum: $(0.5 \times 2.0) + (0.3 \times -1.0) = 0.7$



4. Add bias: $0.7 + 0.1 = 0.8$



5. Apply activation: $\tanh(0.8) = 0.664$

Output: 0.664