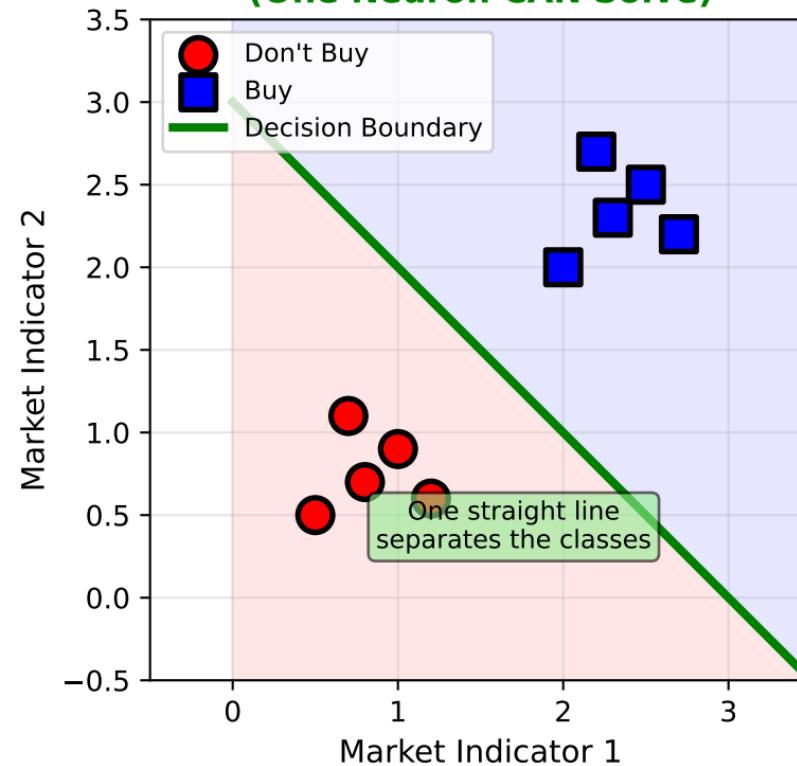
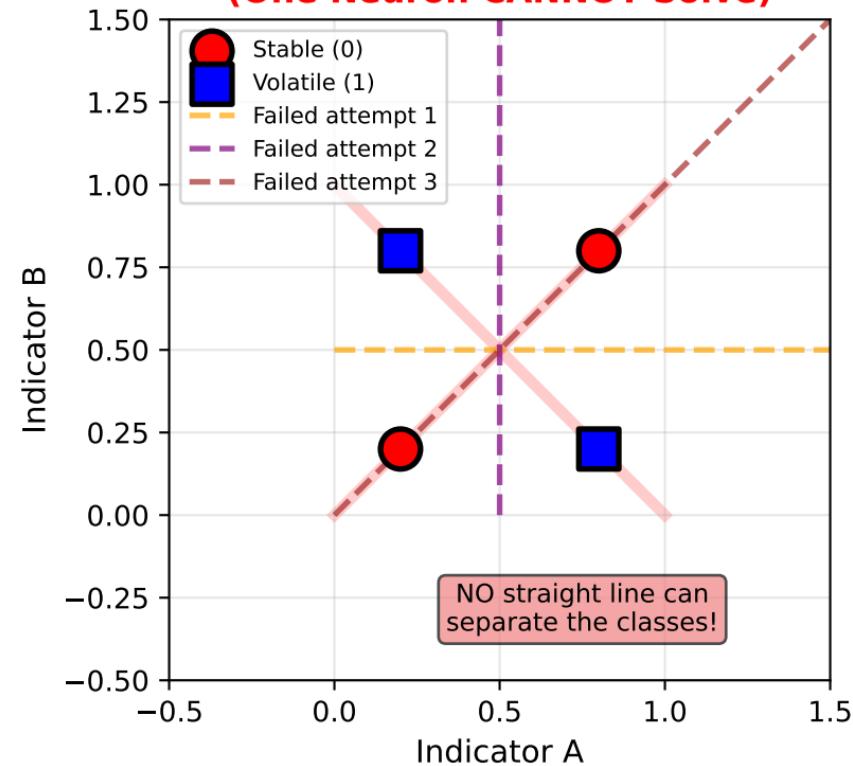


# Why One Neuron Is Not Enough

## Linearly Separable Problem (One Neuron CAN Solve)



## Non-Linearly Separable Problem (One Neuron CANNOT Solve)



**Solution: Use Multiple Layers (Hidden Layers) to Create Non-Linear Decision Boundaries**