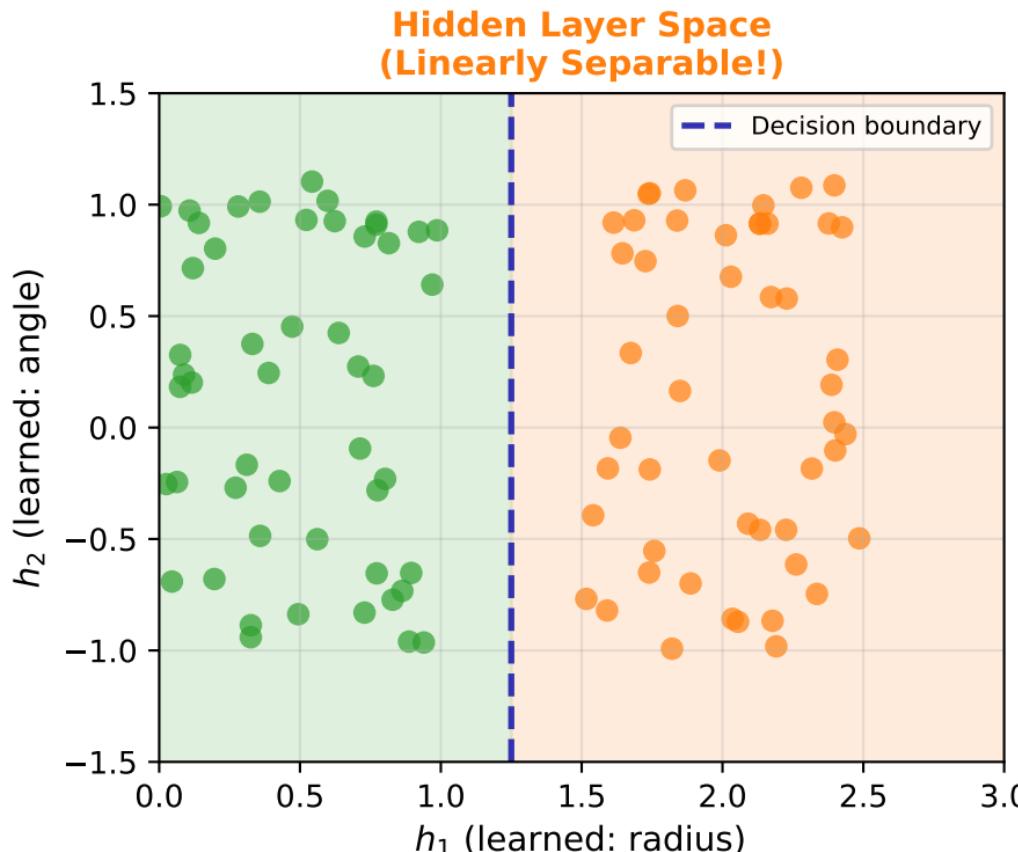
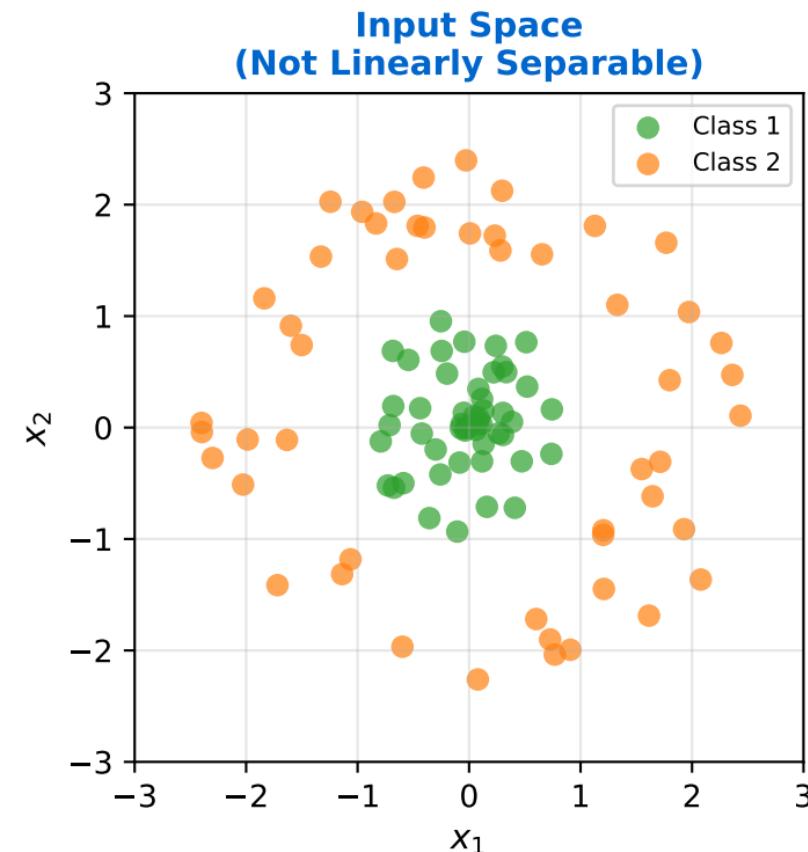


Hidden Layers: Learning Useful Representations



What Hidden Layers Learn

Raw Features: x_1, x_2
Original inputs

Hidden Features: $h_1 = f(W \cdot x)$
Learned combinations
Network learns this!

Useful Patterns: Radius, angles,
edges, textures...

Linear Separability:
Transform until
classes separable