

Part 1/3:

Initialization Strategies

- 1.** Why is Initialization Important?
- 2.** Problems with Zero Initialization
- 3.** Random Initialization and Breaking Symmetry
- 4.** Gradient Vanishing/Exploding
- 5.** Xavier/Glorot Initialization
- 6.** He Initialization (for ReLU)
- 7.** LSUV Initialization
- 8.** Leveraging Pre-trained Weights
- 9.** Comparison of Initialization Strategies