

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