Coordinated Training Timeline: Curriculum Learning × Sparsity

Synchronizing noise-level curriculum with model capacity release

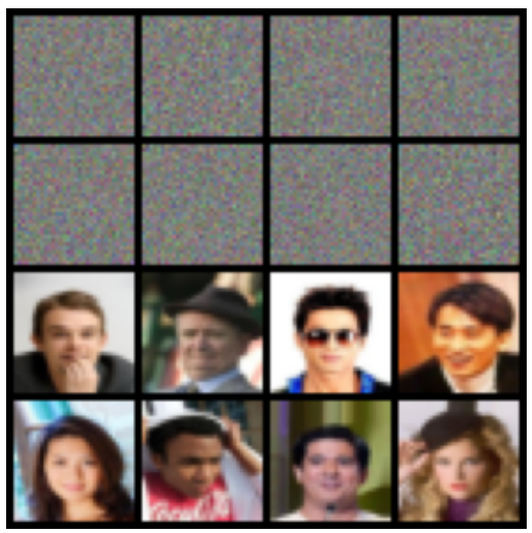
EARLY STAGE
t ∈ [0.8, 1.0]

MIDDLE STAGE
t ∈ [0.4, 1.0]

LATE STAGE
t ∈ [0.0, 1.0]

Noise Level & Output

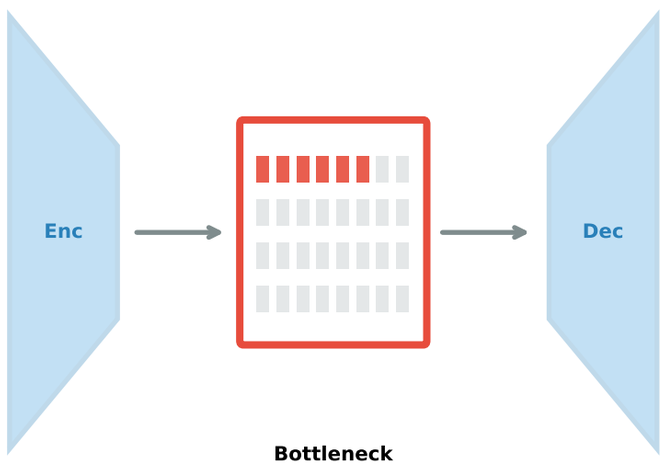
M_1 **Coarse**



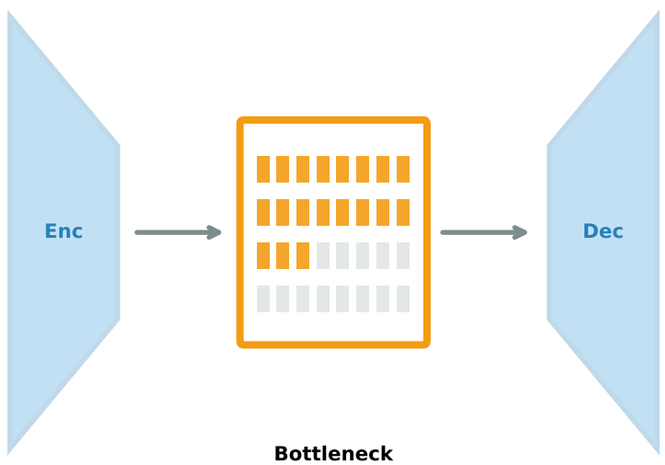
Intermediate

M_2 **Fine**

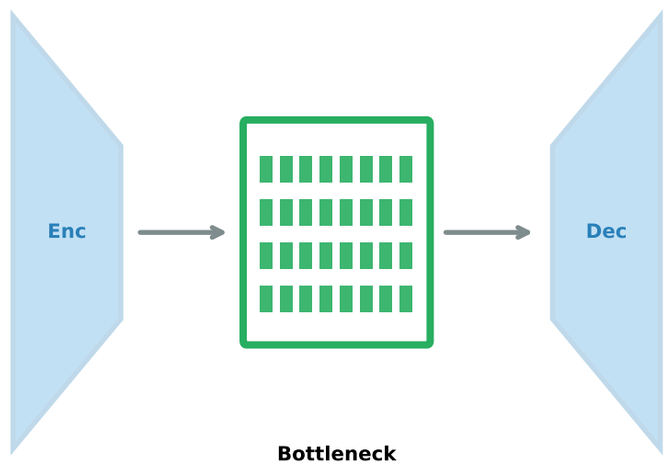
UNet Bottleneck



Bottleneck
51/256 active

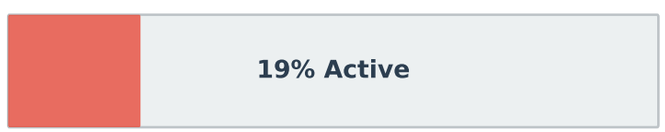


Bottleneck
154/256 active

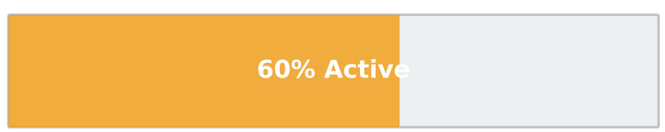


Bottleneck
256/256 active

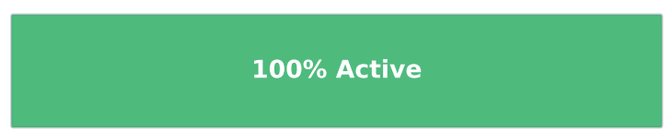
Capacity Released



Sparsity: 80%



Sparsity: 40%



Sparsity: 0%

Key Insight: High Noise ↔ High Sparsity (few channels learn coarse M_1)
Low Noise ↔ Low Sparsity (all channels active, new channels learn fine M_2)