Bottleneck Architecture: Efficient Design

PURPOSE

Reduce computational cost while maintaining expressiveness

Bottleneck Structure

DIMENSIONAL FLOW EXAMPLE

256 channels → 64 channels → 64 channels → 256 channels

Computational Savings

~70% fewer FLOPs

Trade-off

More layers, fewer ops

Used In

ResNet, Inception, etc.

Modern Standard: Almost all efficient architectures use bottlenecks