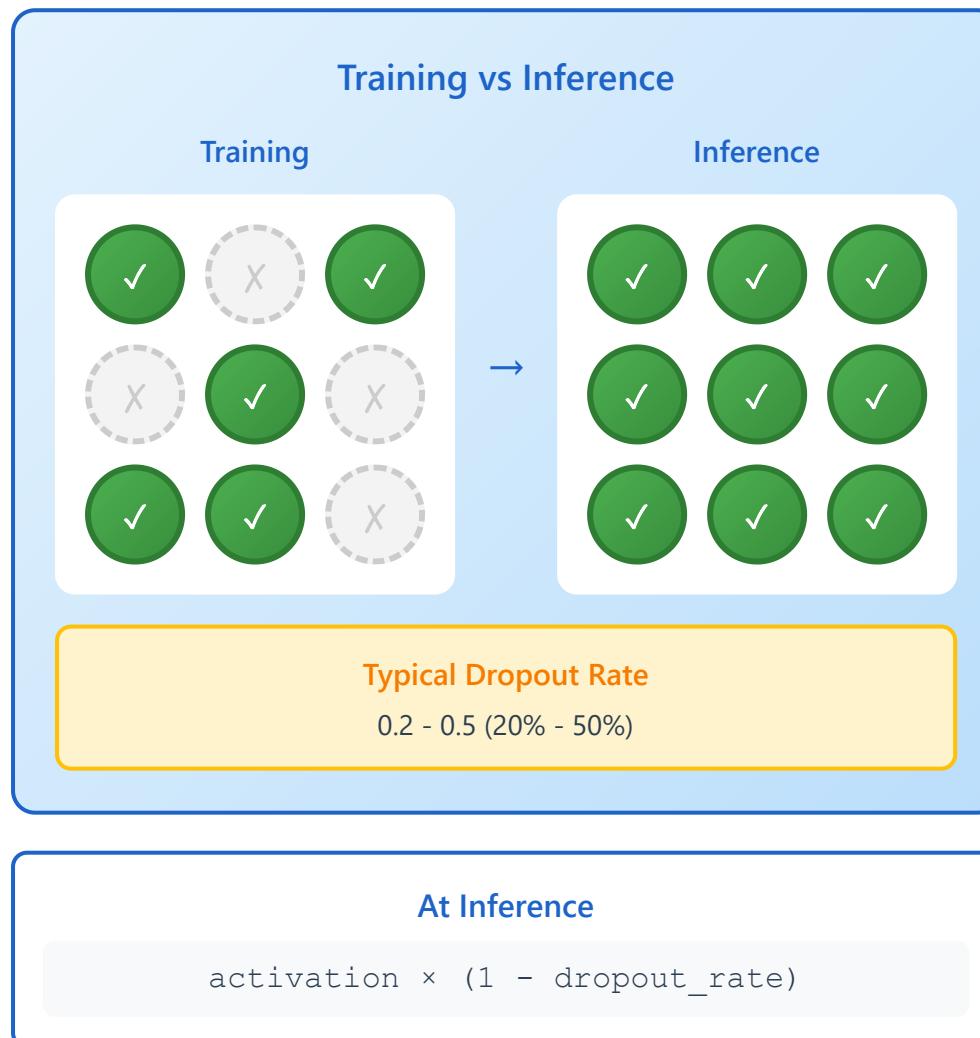


Principles of Dropout



Key Principles

Randomly drops neurons during training
(output set to 0)

Prevents **co-adaptation** of neurons

Trains **ensemble of sub-networks**
simultaneously

Powerful regularization technique

✓ Main Benefit

Reduces **overfitting significantly** in large networks