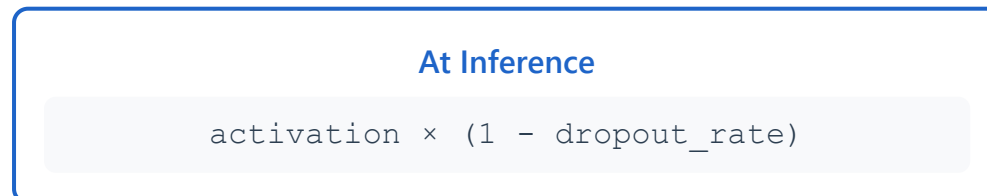
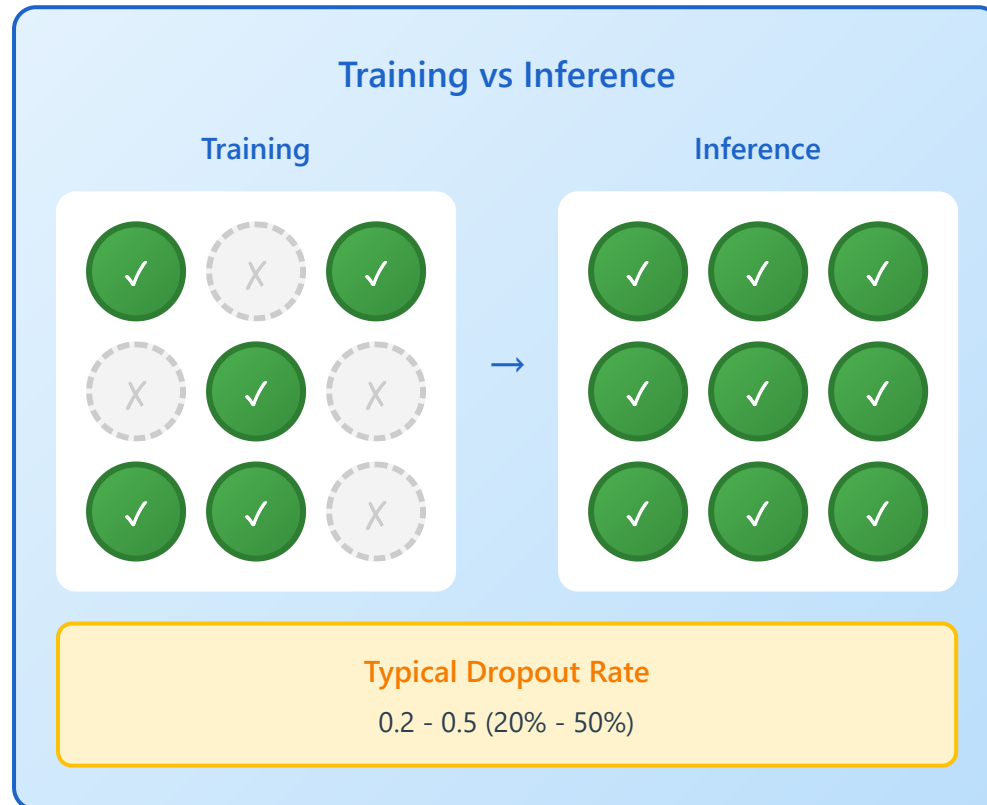


# Principles of Dropout



## 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