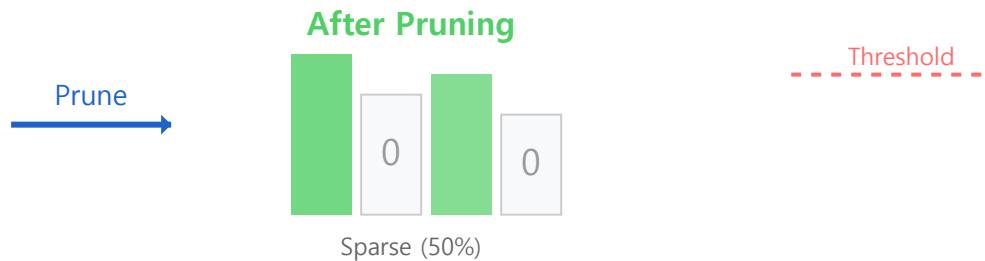
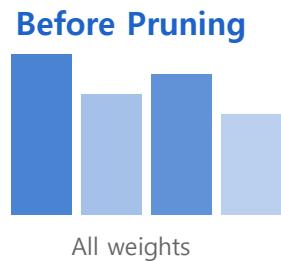


# Magnitude Pruning

## Magnitude-Based Pruning

Increase sparsity by setting small weight values to 0

### Pruning Process



### Threshold Setting Strategies



### Global Threshold

Single threshold for entire network

 $\theta_1$  $\theta_2$  $\theta_3$ 

### Layer-wise Threshold

Different threshold per layer

Top-k



### Top-k Pruning

Keep only top k% weights

## Sparsity Example

Dense: [0.8, 0.3, -0.5, 0.1, -0.9]

↓ Threshold = 0.4

Sparse: [0.8, 0, -0.5, 0, -0.9]



**40% Sparsity Achieved**