

Magnitude Pruning

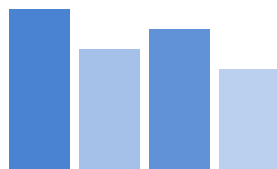
Magnitude-Based Pruning

Increase sparsity by setting small weight values to 0

Pruning Process



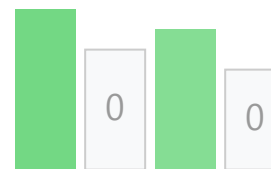
Before Pruning



All weights

Prune
→

After Pruning



Sparse (50%)

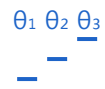
Threshold

Threshold Setting Strategies



Global Threshold

Single threshold for entire network



Layer-wise Threshold

Different threshold per layer



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]

0.8



-0.5



-0.9

40% Sparsity Achieved