Non-Maximum Suppression (NMS)

Problem: Detector outputs many overlapping boxes for same object

Step 1: Sort by Confidence [0.95, 0.90, 0.85, 0.80] Highest first

Step 2: Keep Best Box KEEP: Box with 0.95 (Add to final list)

Step 3: Remove Overlapping For each remaining box: If IoU(best, box) > threshold → DELETE

Step 4: Repeat Go back to Step 2 with remaining boxes Until no boxes left

if boxes remain

if no boxes remain

Output: One clean box per object!