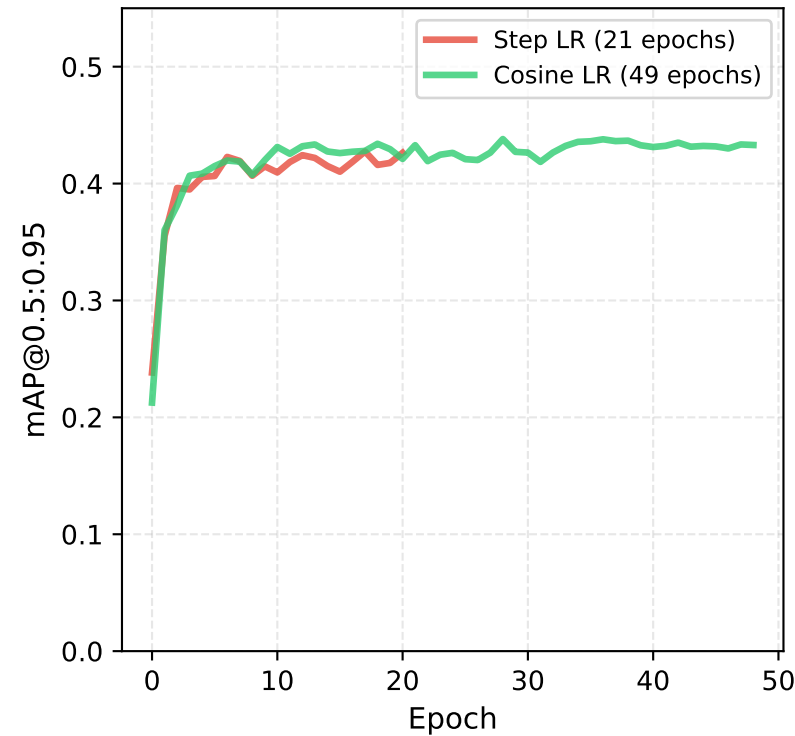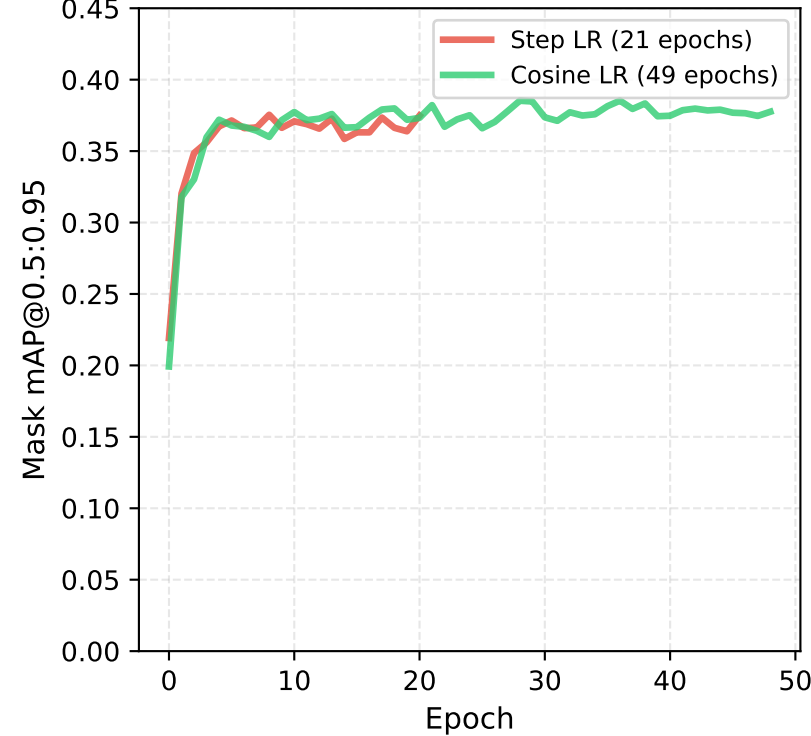# RF-DETR Model Comparison: Baseline vs Fine-tuned

Detection Performance

Segmentation Performance

Performance Summary

Metric	Step	Cosine	Change
Epochs	100	21	-79%
BBox mAP@0.5:0.95	0.426	0.433	+1.6%
BBox mAP@0.5	0.603	0.617	+2.3%
Mask mAP@0.5:0.95	0.375	0.378	+0.7%
Mask mAP@0.5	0.572	0.589	+2.9%

Final Metrics Comparison