Comparison of mAP50 Across Models on validation set

Model	mAP50
YOLOV10-M (Scratch)	0.343
YOLOV10-S (Scratch)	0.362
YOLOV11-S (Scratch)	0.371
YOLOV8-M (Scratch)	0.374
YOLOV11-M (Scratch)	0.378
YOLOV8-S (Scratch)	0.381
YOLOV10-M (Pretrained)	0.411
YOLOV10-S (Pretrained)	0.418
YOLOV8-S (Pretrained)	0.418
YOLOV11-S (Pretrained)	0.422
YOLOV11-M (Pretrained)	0.423
YOLOV8-M (Pretrained)	0.436

Version: YOLOV10, YOLOV11, YOLOV8