Product Detection in
Densely Packed Scenes

Introduction
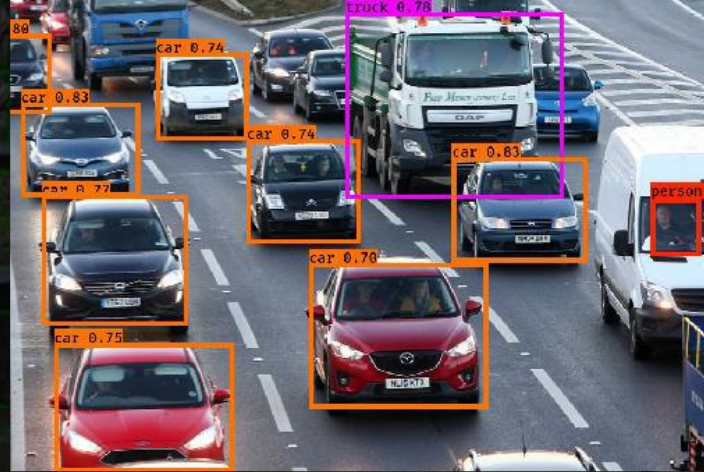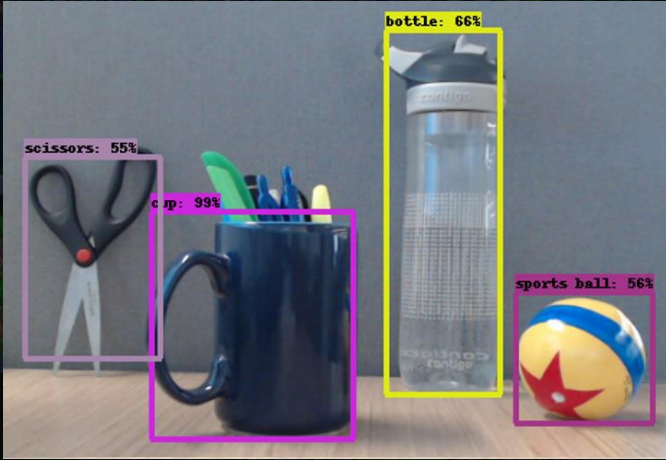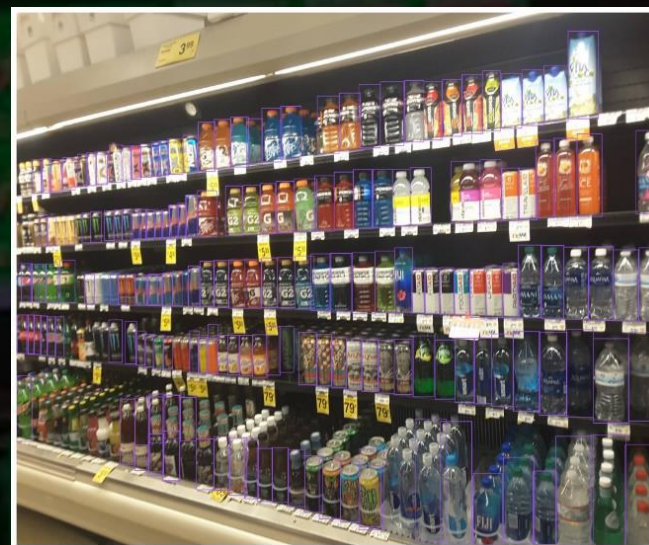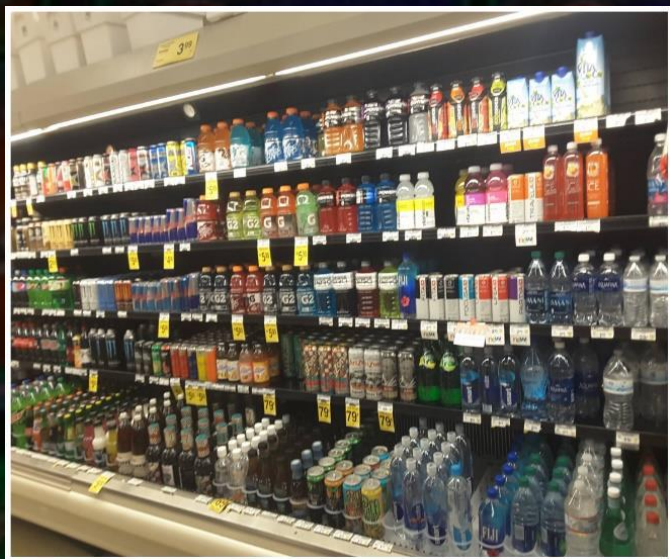

Table 1: Revisiting default models

Model	mAP	AP@$^{0.5}$	AP@$^{0.75}$	AR^{300}
RetinaNet-r50-fpn	0.463	0.751	0.532	0.512
Faster-RCNN-r50-fpn	0.523	0.850	0.592	0.582

What we did!

SKU 110K Dataset

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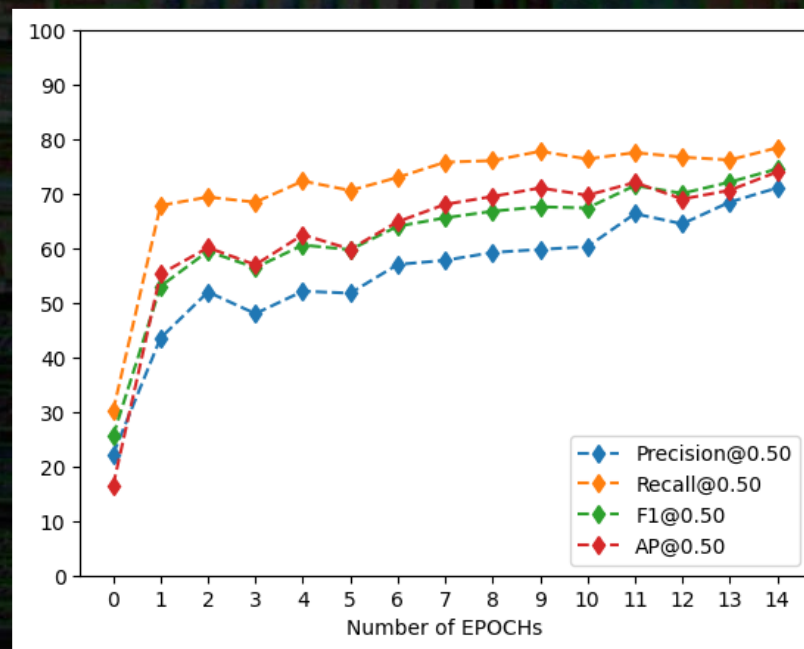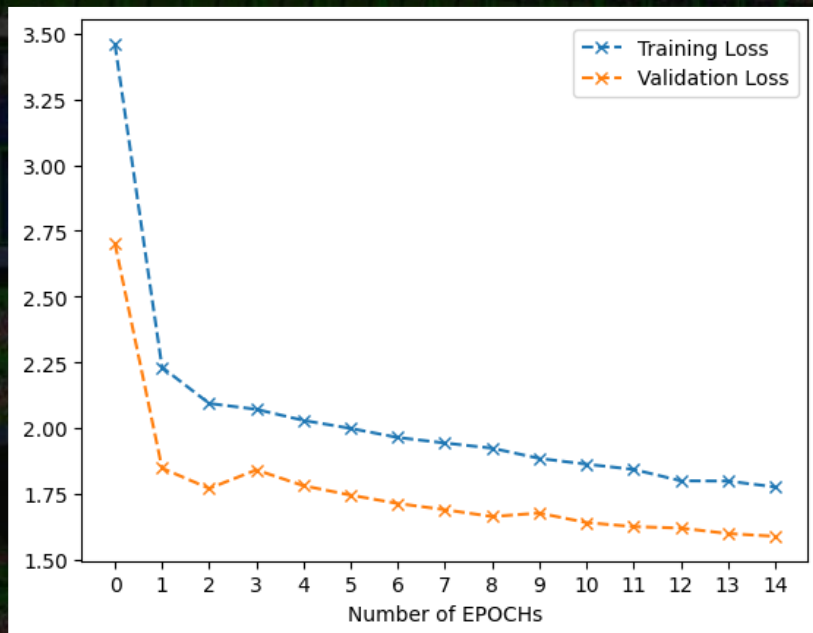
SKU 110K Dataset → YOLO (YOLO-NAS-s)

Training → Model Output — Ground Truth

COCO Pre Trained Weights → YOLO

Ppyoloeloss

Our Results…

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Model	mAP	AP@$^{0.5}$	AP@$^{0.75}$	AR^{300}
RetinaNet-r50-fpn	0.463	0.751	0.532	0.512
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Our Model's mAP= 0.7402

Thank you