

Instance Segmentation

Lightly**Train** supports fine-tuning instance segmentation models with the `train_instance_segmentation` function. Two model families are currently supported:

LTDETRv2 (NEW)



LightlyTrain's **LTDETRv2** is a DETR-based instance segmentation family built on ECViT backbones from the [EdgeCrafter](#) paper by Liu et al. It matches the accuracy of the original EdgeCrafter ECSeg implementation on COCO, while being 10-20% faster on GPU. See [LTDETRv2](#) for benchmark results, available models, and how to train, predict, and export a LTDETRv2 instance segmentation model.

EoMT



LightlyTrain also supports training **DINOv2** and **DINOv3**-based instance segmentation models with the [EoMT architecture](#) by Kerssies et al. See [EoMT](#) for benchmark results, available models, and how to train, predict, and export an EoMT instance segmentation model.