

Report-3

Improving mIoU on the validation set and evaluation on kitti dataset

1. The model is trained on VOC Pascal Segmentation train Dataset which has ~1464 data and evaluated on validation data which has ~1456 data.
2. Used DINO as Feature Extractor and U-Net Seg head.
3. Improved model gave mIoU of ~84%, previously it was ~76%.

Evaluation on KITTI Dataset

1. There is a domain mismatch between Pascal and Kitti.
2. Initially evaluating our model trained on Pascal was giving <1% of mIoU.
3. Because there is domain mismatch, I fine-tuned our model on kitti using only last layer and got ~5% of mIoU.
4. The result can be enhanced by training a model train on the same domain of dataset.
5. Result is showcase in dino_seg_kitti_2.ipynb Notebook.