Semantic Segmentation using Resource Efficient Deep Learning

Naresh Kumar Gurulingan

February 23, 2018

Dataset

- Images taken in different settings..
- Labeling with MATLAB Image Labeler.
- Using
  "https://www.kaggle.com/gaborfodor/augmentation-methods" to
  augment data.. mat to csv..
- Not sure regarding the possibility to augment data while training
  (without saving).

implementations to look into

- already focusing on efficiency: ENet, ICNet, SQ.
- accuracy: DeepLabv3, ResNet38, PSPNet.
- pruning and low rank decomposition.
- converting to tensorflow lite (the existing implementations could be in different frameworks)..is this ok?
- as of now going through tensorflow and keras documentation..