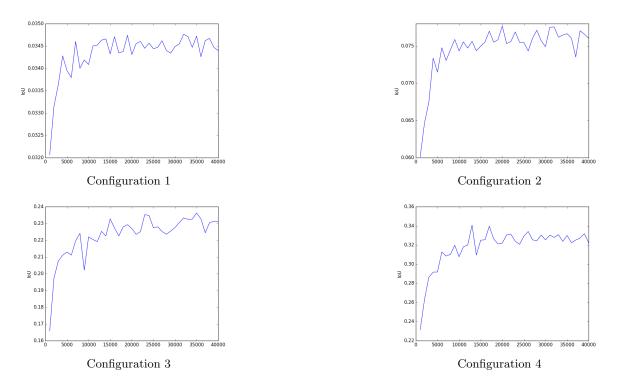
Implementing a decoder module for Fully Convolutional Networks

In the first four pictures we can see the Intersection over Union plot for the different configuration. The first configuration consists of a upsampling function which produces 120 output features, which are 16x bigger in resolution than input.

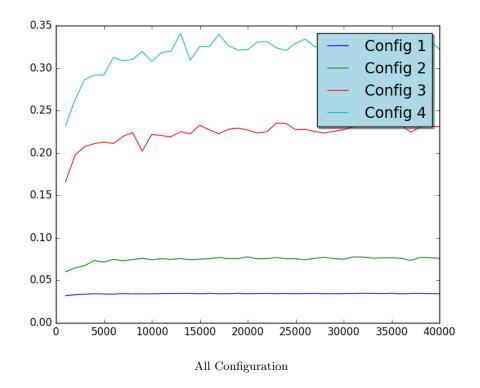
In the second configuration there is a refinement block implemented, which adds so called skip connections from the encoder part to the decoder part. These skip connections provide information for reconstructing accurate shapes for segmentation boundaries.

Third configuration uses two skip connection processings and in the last configuration there are all skip connections processed.

On x-axis in the plots we can see the epoch number and on the y-axis the Intersection over Unit.



In picture 5 we can see all four configurations' IoUs in one plot. Here we can easily see that configuration 4, which is the only one processing skip connection 2,3 and 4, is the best one.



In table 1 we can also see configuration 4 is the one with the highest Maximum IoU.

Configuration	Maximum IoU
Configuration 1	3.48 %
Configuration 2	7.77 %
Configuration 3	23.63 %
Configuration 4	34.08 %

Comparison Maximum IoU