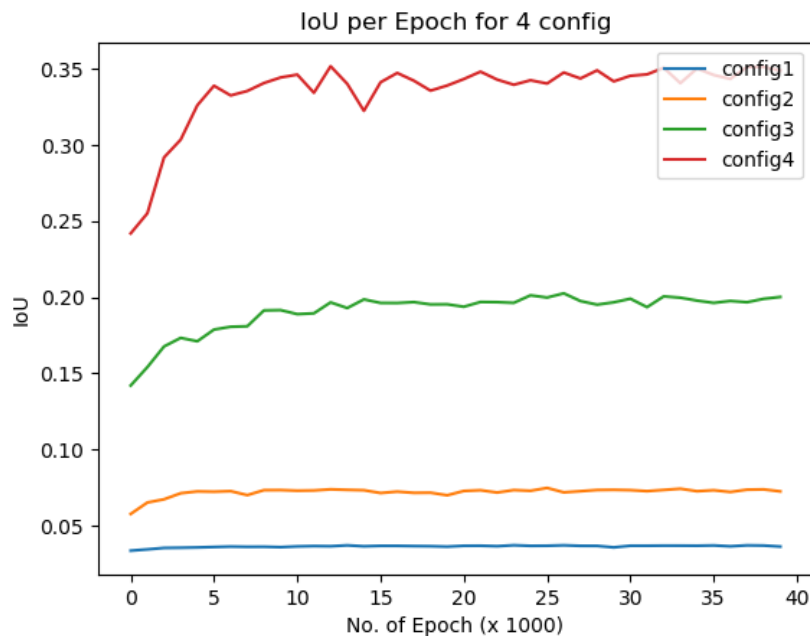


Introduction

In this exercise, we experimented with different configurations of semantic segmentation where each pixel of the image should be classified. We experimented with 4 different decoder configurations where each configuration has one more skip connection compared to the previous. The performance of the configurations was measured by the intersection over union (IoU) measure.

IoU vs epoch for each decoder configuration

The following graph shows the performance of each configuration in terms of IoU per epoch.



It's apparent that the more skip connections added in the decoder configuration, the better semantic segmentation performance obtained.

Maximum IoU per configuration

The following table presents the maximum IoU obtained for each configuration.

Configuration	Maximum IoU
1	0.037135
2	0.074787
3	0.202589
4	0.351734