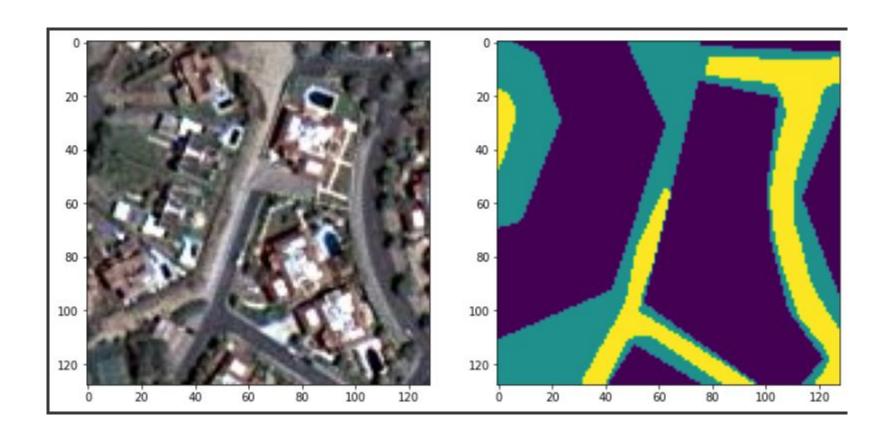
Semantic Segmentation of Satellite Images

1605005 (Navid Bin Hasan) 1605006 (Avijit Biswas)

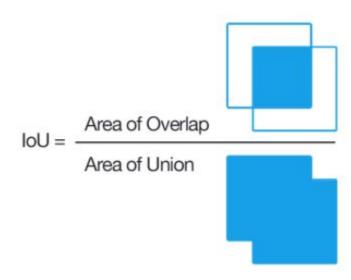
Problem

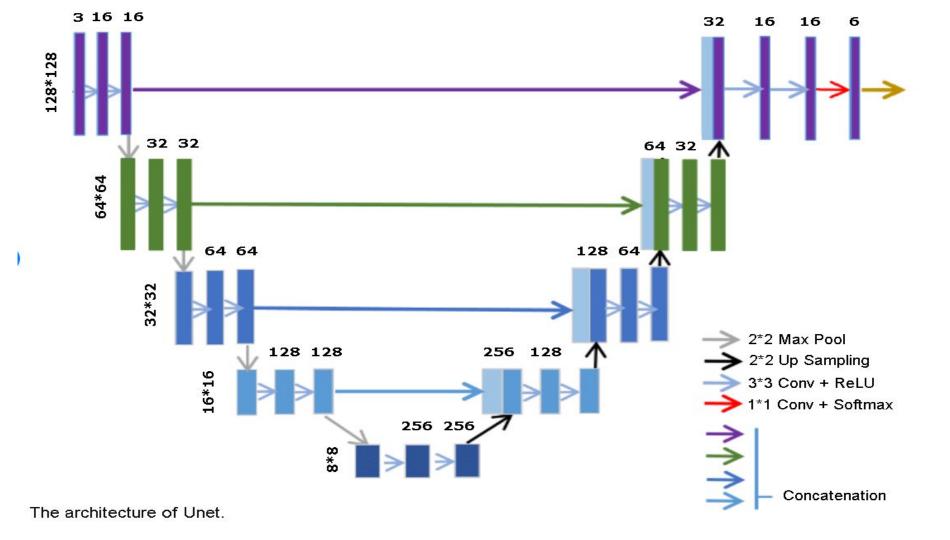
- The dataset consists of aerial imagery of Dubai obtained by MBRSC satellites and annotated with pixel-wise semantic segmentation in 6 classes (Building, Land, Water, Vegetation, Road, Unlabeled).
- We want to semantically segment the images into the above mentioned classes.



Results

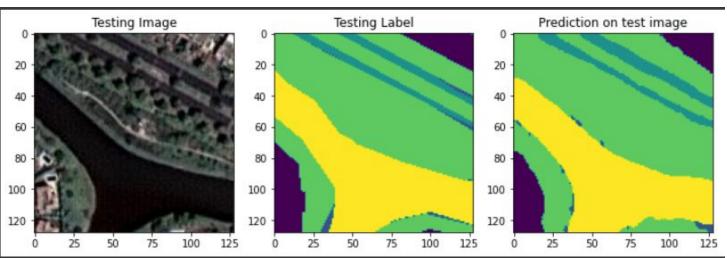
We used Jaccard Coefficient (IoU) as our evaluation metric.

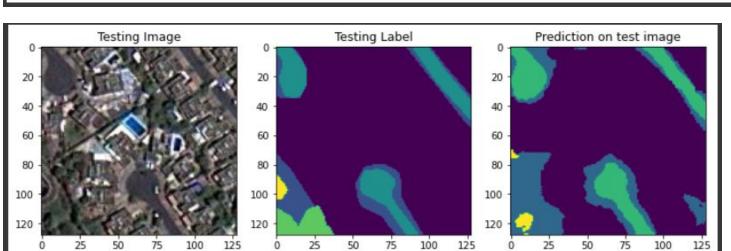


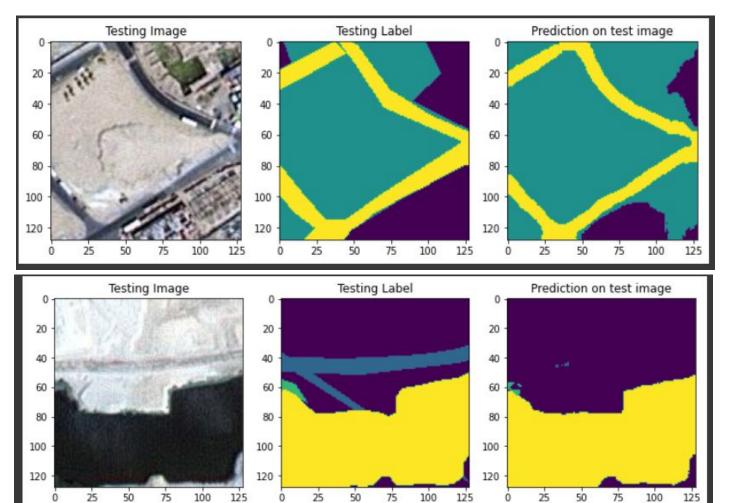


Results

Learning rate	Validation	Test
0.001	0.73	0.71
0.002	0.71	0.70







Challenges

• Due to lack of computational power, we could not achieve desirable performance on MSCOCO dataset.