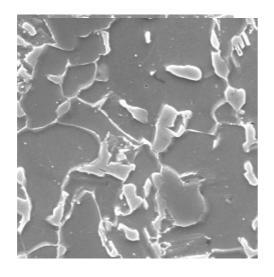
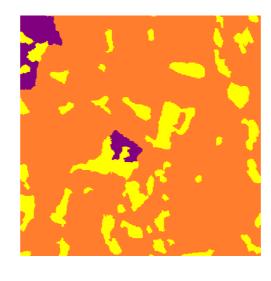
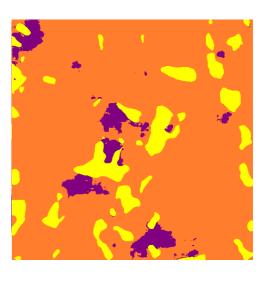
# Model Output [Model 7]



Input Test Image



Input Label Image



Output Test Image

Validation mIOU → 0.1734

Validation Acc  $\rightarrow$  56.87

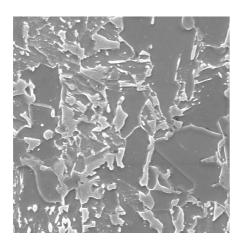
Test Accuracy → 82.99

Dice Coefficient → 0.81350676 (avg of 48 test images)

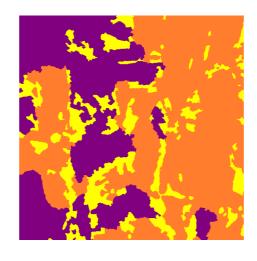
Traning mIoU → -

Training  $Acc \rightarrow 91.68$ 

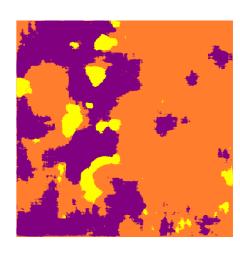
# Model Output [Model 8][after 200 iter]







Input Label Image



Output Test Image

Validation mIOU → 0.3728

Validation Acc  $\rightarrow$  70.32

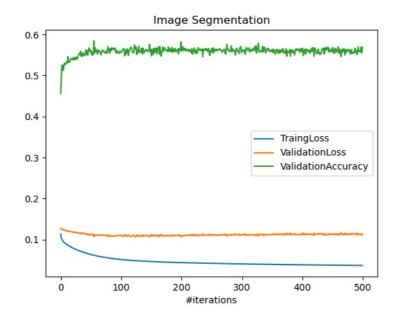
Test Accuracy  $\rightarrow$  61.79

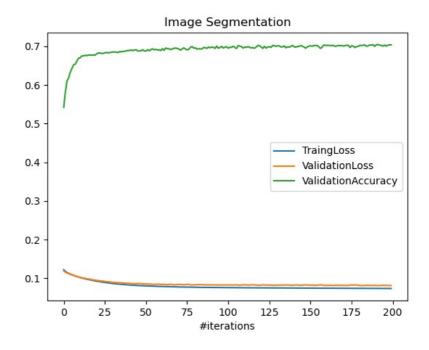
Dice Coefficient → 0.602

Traning mloU → -

Training  $Acc \rightarrow 78.54$ 

### Model Performance





# Testing on other type of steel data

	x3000	x5000	typeA	typeB	typeC
Model 6	58.85	28.82	46.29	73.61	34.48
Model 7	75.81	83.29	74.83	55.9	69.94
Model 8	70.01	78.75	47.71	7.46	40.48

#### Observation

- Magnification, sliding window, random Intensity, random gamma, random noise, horizontal and vertical flip, rotation up to 10 degrees were used was using to generate images.
- 200 iterations took 33 hours.
- 13920 augmentated images of size 800\*800
- 10000 used for Training, 3000 for validation, 920 for testing