UNet Summary

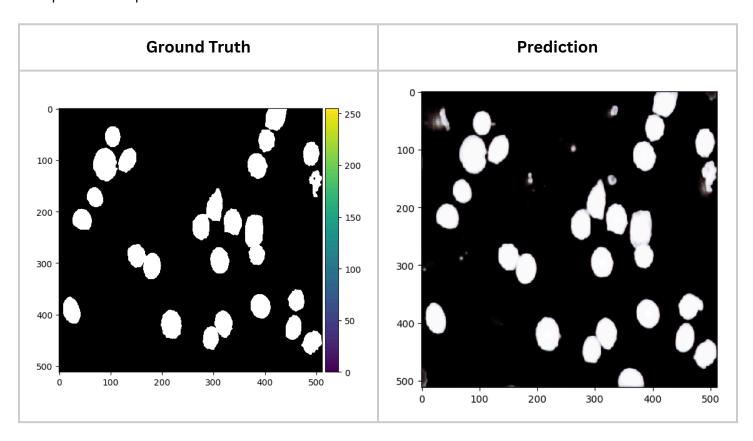
Average Dice Coefficient: 0.912

Average Jaccard Index: 0.839

```
1 avg_dice = 0
2 avg_jaccard = 0
3 for x in range(len(test_preds)):
4          i = y_test[x]
5          j = test_preds[x]
6          avg_dice = avg_dice + tf.get_static_value(dice_coef2(i,j))
7          avg_jaccard = avg_jaccard + tf.get_static_value(jaccard_index2(i,j))
8
9 print('Average Test Dice co-efficent: ', avg_dice/len(test_preds))
10 print('Average Test Jaccrad Index: ', avg_jaccard/len(test_preds))

Average Test Dice co-efficent: 0.9119188368320466
Average Test Jaccrad Index: 0.8388234049081802
```

Sample test vs prediction:



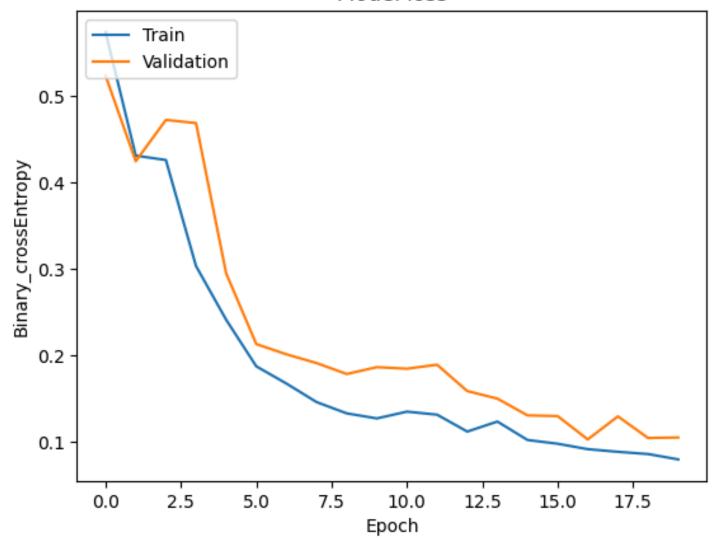
Model Evaluation:

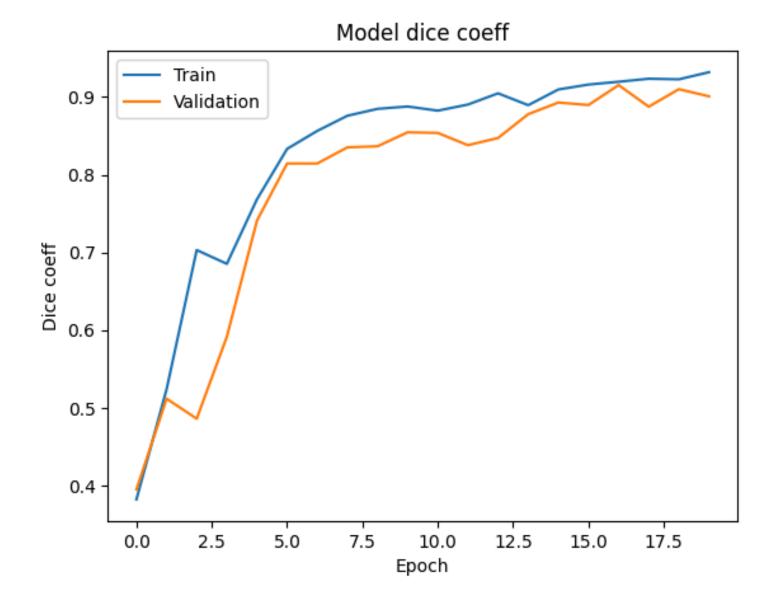
```
[]
      1 print('Lowest training loss: ', min(history.history['loss']))
      2 print('Lowest validation loss: ', min(history.history['val_loss']))
      3 print('Highest training dice coefficient: ', max(history.history['dice_coef']))
      4 print('Highest validation dice coefficient: ', max(history.history['val_dice_coef']))
      5 print('Highest training jaccrad index: ', max(history.history['jaccard_index']))
      6 print('Highest validation jaccard index: ', max(history.history['val_jaccard_index']))
₹
    Lowest training loss: 0.0800824761390686
    Lowest validation loss: 0.10313411056995392
    Highest training dice coefficient:
                                        0.9318262934684753
    Highest validation dice coefficient:
                                          0.9152576327323914
    Highest training jaccrad index: 0.8729183077812195
    Highest validation jaccard index: 0.8438817858695984
```

Model Eval graphs:

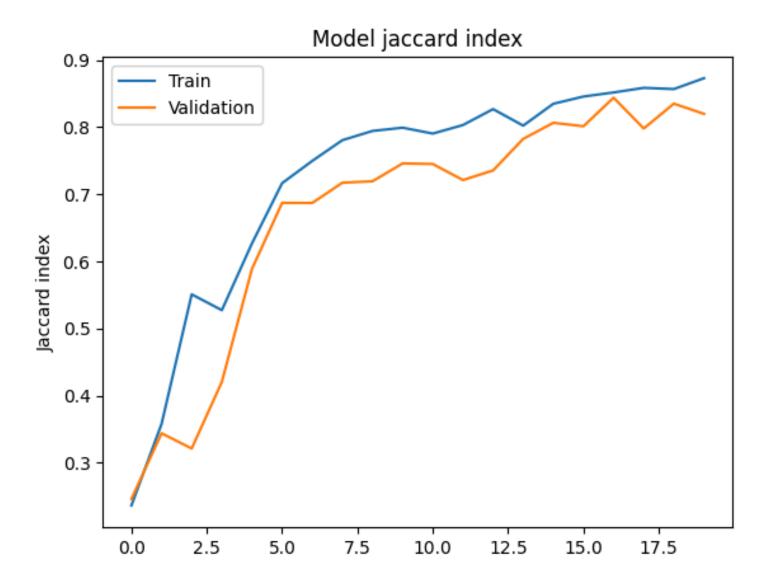
Loss vs Epoch

Model loss





Jaccard Index vs Epoch



Epoch