Diabetic\_retinopathy Confusion matrix

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | 0 | 1 | 2 | 3 | 4 |
| 0 | 576 | 11 | 14 | 3 | 2 |
| 1 | 9 | 130 | 9 | 1 | 1 |
| 2 | 3 | 5 | 143 | 7 | 3 |
| 3 | 0 | 1 | 3 | 19 | 3 |
| 4 | 1 | 1 | 1 | 2 | 13 |

TP: True positives per class

[576 130 143 19 13]

FP: false positeves per class

[13 18 27 13 9]

FN: Flase negative per class

[30 20 18 7 5]

TN: True negatives per class

[342, 793, 773, 922, 934]

Precision:

[0.97792869 0.87837838 0.84117647 0.59375 0.59090909]

Recall:

[0.95049505 0.86666667 0.88819876 0.73076923 0.72222222]

Classification final report:

precision recall f1-score support(total images in each class)

0 0.9779 0.9505 0.9640 606

1 0.8784 0.8667 0.8725 150

2 0.8412 0.8882 0.8640 161

3 0.5938 0.7308 0.6552 26

4 0.5909 0.7222 0.6500 18

accuracy 0.9168 961

macro avg 0.7764 0.8317 0.8011 961

weighted avg 0.9218 0.9168 0.9187 961

Macro precision = 0.7764 Macro Recall = 0.8317

Weighted precision = 0.9218 Weighted Recall = 0.9168

Total Number of image sin test set = 961