Project Development Phase
Model Performance Test

Date	10 November 2022
Team ID	592350
Project Name	Deep Learning Model for Eye Disease Prediction
Maximum Marks	10 Marks

Model Performance Testing:

1. **Classification Model:**
   Confusion Matrix - , Accuray Score- & Classification Report –

```
Confusion Matrix:
[[183   1   7  16]
 [  0 187   7  25]
 [ 11   8 102  80]
 [  1   8  19 186]]


Classification Report:
                     precision    recall  f1-score   support

            cataract      0.94      0.88      0.91       207
diabetic_retinopathy      0.92      0.85      0.88       219
            glaucoma      0.76      0.51      0.61       201
              normal      0.61      0.87      0.71       214

            accuracy                          0.78       841
           macro avg      0.80      0.78      0.78       841
        weighted avg      0.80      0.78      0.78       841


Accuracy Score: 0.7824019024970273
```

2. Tune the Model –

```
Confusion Matrix:
[[177   3   3  24]
 [  0 216   3   0]
 [  3   5 156  37]
 [  2   4  21 187]]

Classification Report:
                      precision    recall  f1-score   support

            cataract       0.97      0.86      0.91       207
 diabetic_retinopathy       0.95      0.99      0.97       219
            glaucoma       0.85      0.78      0.81       201
              normal       0.75      0.87      0.81       214

            accuracy                           0.88       841
           macro avg       0.88      0.87      0.87       841
        weighted avg       0.88      0.88      0.88       841


Accuracy Score: 0.8751486325802615
```