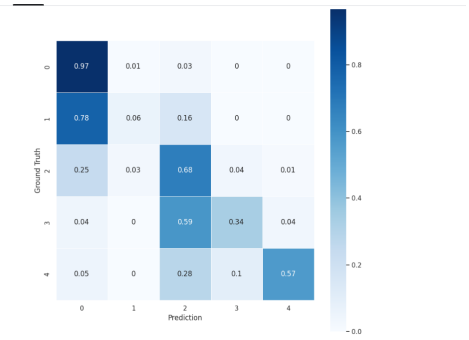
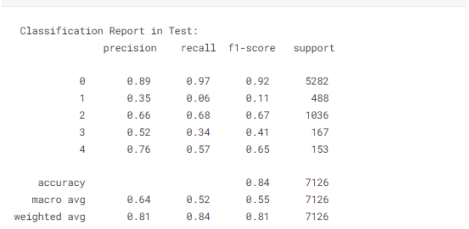
Performance & Final Submission Phase

Model Performance Test

Date	22 November 2023
Team ID	PNT2023TMID592236
Project Name	**Project** - Deep Learning Fundus Image Analysis For Early Detection of Diabetic Retinopathy.
Maximum Marks	10 Marks

Model Performance Testing:

Project team shall fill the following information in model performance testing template.

S.No.	Parameter	Values	Screenshot
1.		**Classification Model:** Confusion Matrix - , Accuray Score- & Classification Report -	 

1.	Tune the Model	Hyperparameter Tuning - Validation Method -	98/97 [==============================] - 34s 349ms/step - loss: 0.0876 - acc: 0.9668 - val_loss: 0.0917 - val_acc: 0.9647
			val_kappa: 0.9168
			Epoch 12/15
			98/97 [==============================] - 34s 345ms/step - loss: 0.0838 - acc: 0.9668 - val_loss: 0.1000 - val_acc: 0.9622
			val_kappa: 0.9108
			Epoch 13/15
			98/97 [==============================] - 34s 351ms/step - loss: 0.0779 - acc: 0.9699 - val_loss: 0.1067 - val_acc: 0.9636
			val_kappa: 0.9052
			Epoch 14/15
			98/97 [==============================] - 34s 348ms/step - loss: 0.0727 - acc: 0.9723 - val_loss: 0.1007 - val_acc: 0.9644
			val_kappa: 0.9118
			Epoch 15/15
			98/97 [==============================] - 34s 350ms/step - loss: 0.0671 - acc: 0.9747 - val_loss: 0.1035 - val_acc: 0.9636
			val_kappa: 0.9122
			
			In [21]:
			`kappa_metrics = Metrics()`
			
			`history = model.fit_generator(`
			`data_generator,`
			`steps_per_epoch=x_train.shape[0] / BATCH_SIZE,`
			`epochs=15,`
			`validation_data=(x_val, y_val),`
			`callbacks=[kappa_metrics]`
			`)`

			In [23]:
			`plt.plot(kappa_metrics.val_kappas)`
			
			Out[23]:
			`[<matplotlib.lines.Line2D at 0x7f93ec68b208>]`