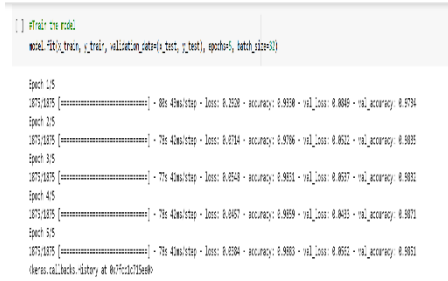
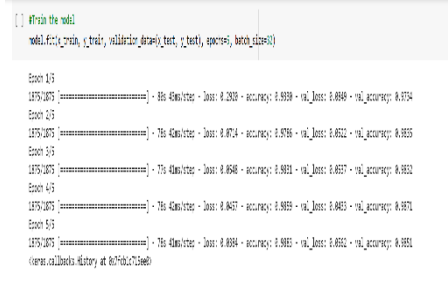


Project Development Phase Model Performance Test

Date	19 November 2022
Team ID	PNT2022TMID08626
Project Name	Project – A Novel Method for Handwritten Digit Recognition System
Maximum Marks	10 Marks

Model Performance Testing:

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

S.No.	Parameter	Values	Screenshot
1.	Model Summary	Fitting the model – Loss: 0.0384 Val_Loss: 0.0562	 <pre> fit_model() model.fit(x_train, y_train, validation_data=(x_test, y_test), epochs=10, batch_size=32) Epoch 1/10 1000/1000 [=====] - loss: 0.4601step - loss: 0.3538 - accuracy: 0.9308 - val_loss: 0.8848 - val_accuracy: 0.8734 Epoch 2/10 1000/1000 [=====] - loss: 0.4361step - loss: 0.3734 - accuracy: 0.9306 - val_loss: 0.8612 - val_accuracy: 0.9035 Epoch 3/10 1000/1000 [=====] - loss: 0.4161step - loss: 0.3534 - accuracy: 0.9311 - val_loss: 0.8637 - val_accuracy: 0.9031 Epoch 4/10 1000/1000 [=====] - loss: 0.4061step - loss: 0.3450 - accuracy: 0.9309 - val_loss: 0.8431 - val_accuracy: 0.9071 Epoch 5/10 1000/1000 [=====] - loss: 0.4061step - loss: 0.3384 - accuracy: 0.9303 - val_loss: 0.8652 - val_accuracy: 0.9051 Overfit: val_loss: 0.8652 Overfit: val_accuracy: 0.9051 </pre>
2.	Accuracy	Training Accuracy – 0.9883 Validation Accuracy -0.9851	 <pre> fit_model() model.fit(x_train, y_train, validation_data=(x_test, y_test), epochs=10, batch_size=32) Epoch 1/10 1000/1000 [=====] - loss: 0.4601step - loss: 0.3538 - accuracy: 0.9308 - val_loss: 0.8848 - val_accuracy: 0.8734 Epoch 2/10 1000/1000 [=====] - loss: 0.4361step - loss: 0.3734 - accuracy: 0.9306 - val_loss: 0.8612 - val_accuracy: 0.9035 Epoch 3/10 1000/1000 [=====] - loss: 0.4161step - loss: 0.3534 - accuracy: 0.9311 - val_loss: 0.8637 - val_accuracy: 0.9031 Epoch 4/10 1000/1000 [=====] - loss: 0.4061step - loss: 0.3450 - accuracy: 0.9309 - val_loss: 0.8431 - val_accuracy: 0.9071 Epoch 5/10 1000/1000 [=====] - loss: 0.4061step - loss: 0.3384 - accuracy: 0.9303 - val_loss: 0.8652 - val_accuracy: 0.9051 Overfit: val_loss: 0.8652 Overfit: val_accuracy: 0.9051 </pre>