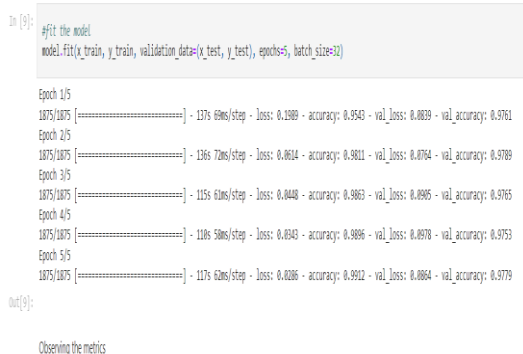
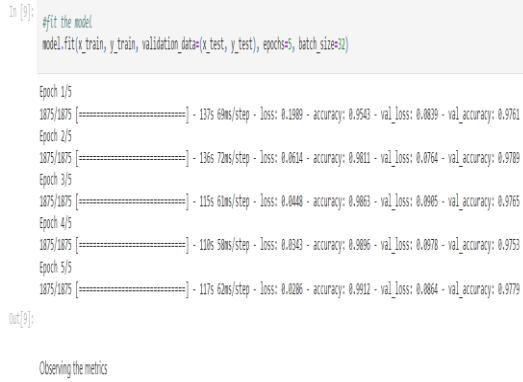


Project Development Phase Model Performance Test

Date	10 November 2022
Team ID	PNT2022TMID22361
Project Name	A Novel Method for Handwritten Digit Recognition System
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.	Model Summary	Fitting the model: <ul style="list-style-type: none"> Loss - 0.0286 Val_loss - 0.0864 	 <pre> In [9]: #fit the model model.fit(x_train, y_train, validation_data=(x_test, y_test), epochs=5, batch_size=32) Epoch 1/5 1875/1875 [=====] - 137s 69ms/step - loss: 0.1989 - accuracy: 0.9543 - val_loss: 0.0839 - val_accuracy: 0.9761 Epoch 2/5 1875/1875 [=====] - 136s 72ms/step - loss: 0.0614 - accuracy: 0.9811 - val_loss: 0.0764 - val_accuracy: 0.9789 Epoch 3/5 1875/1875 [=====] - 115s 61ms/step - loss: 0.0448 - accuracy: 0.9863 - val_loss: 0.0895 - val_accuracy: 0.9765 Epoch 4/5 1875/1875 [=====] - 118s 58ms/step - loss: 0.0343 - accuracy: 0.9896 - val_loss: 0.0970 - val_accuracy: 0.9753 Epoch 5/5 1875/1875 [=====] - 117s 62ms/step - loss: 0.0286 - accuracy: 0.9912 - val_loss: 0.0864 - val_accuracy: 0.9779 Out[9]: Observing the metrics </pre>
2.	Accuracy	<ul style="list-style-type: none"> Training Accuracy – 0.9912 Val_Accuracy – 0.9779 	 <pre> In [9]: #fit the model model.fit(x_train, y_train, validation_data=(x_test, y_test), epochs=5, batch_size=32) Epoch 1/5 1875/1875 [=====] - 137s 69ms/step - loss: 0.1989 - accuracy: 0.9543 - val_loss: 0.0839 - val_accuracy: 0.9761 Epoch 2/5 1875/1875 [=====] - 136s 72ms/step - loss: 0.0614 - accuracy: 0.9811 - val_loss: 0.0764 - val_accuracy: 0.9789 Epoch 3/5 1875/1875 [=====] - 115s 61ms/step - loss: 0.0448 - accuracy: 0.9863 - val_loss: 0.0895 - val_accuracy: 0.9765 Epoch 4/5 1875/1875 [=====] - 118s 58ms/step - loss: 0.0343 - accuracy: 0.9896 - val_loss: 0.0970 - val_accuracy: 0.9753 Epoch 5/5 1875/1875 [=====] - 117s 62ms/step - loss: 0.0286 - accuracy: 0.9912 - val_loss: 0.0864 - val_accuracy: 0.9779 Out[9]: Observing the metrics </pre>