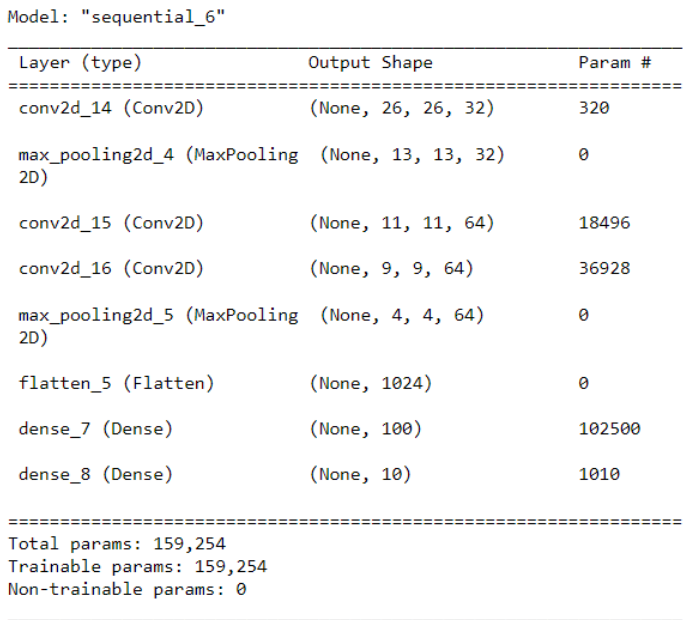


Project Development Phase Model Performance Test

Date	10 November 2022
Team ID	PNT2022TMID24883
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	Total params: 159,254 Trainable params: 159,254 Non-trainable params: 0	 <pre> Model: "sequential_6" _____ Layer (type) Output Shape Param # ----- conv2d_14 (Conv2D) (None, 26, 26, 32) 320 max_pooling2d_4 (MaxPooling (None, 13, 13, 32) 0 2D) conv2d_15 (Conv2D) (None, 11, 11, 64) 18496 conv2d_16 (Conv2D) (None, 9, 9, 64) 36928 max_pooling2d_5 (MaxPooling (None, 4, 4, 64) 0 2D) flatten_5 (Flatten) (None, 1024) 0 dense_7 (Dense) (None, 100) 102500 dense_8 (Dense) (None, 10) 1010 _____ Total params: 159,254 Trainable params: 159,254 Non-trainable params: 0 </pre>

2.	Training Accuracy	Training Accuracy: 0.9593	<div>Epoch 1/10 1875/1875 [=====] - 44s 23ms/step - loss: 0.1276 - accuracy: 0.9593 Epoch 2/10 1875/1875 [=====] - 44s 24ms/step - loss: 0.0422 - accuracy: 0.9870 Epoch 3/10 1875/1875 [=====] - 46s 25ms/step - loss: 0.0299 - accuracy: 0.9901 Epoch 4/10 1875/1875 [=====] - 47s 25ms/step - loss: 0.0207 - accuracy: 0.9934 Epoch 5/10 1875/1875 [=====] - 44s 24ms/step - loss: 0.0160 - accuracy: 0.9947 Epoch 6/10 1875/1875 [=====] - 44s 24ms/step - loss: 0.0118 - accuracy: 0.9962 Epoch 7/10 1875/1875 [=====] - 39s 21ms/step - loss: 0.0085 - accuracy: 0.9974 Epoch 8/10 1875/1875 [=====] - 38s 21ms/step - loss: 0.0072 - accuracy: 0.9978 Epoch 9/10 1875/1875 [=====] - 44s 23ms/step - loss: 0.0044 - accuracy: 0.9987 Epoch 10/10 1875/1875 [=====] - 40s 21ms/step - loss: 0.0042 - accuracy: 0.9987 <keras.callbacks.History at 0x13c090cc700></div>
3.	Evaluation Accuracy	Evaluation Accuracy: 99.050	<div>313/313 [=====] - 5s 7ms/step - loss: 0.0337 - accuracy: 0.9905 Accuracy > 99.050</div>

