

Model Performance Test

Date	15 November 2022
Team ID	PNT2022TMID35898
Project Name	Project - 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	Model: Sequential ✓ Total params:591786 ✓ Trainable params: 591786 ✓ Non-trainable params:0	<pre> Model Saved! Model: "sequential" Layer (type) Output Shape Param # ===== conv2d (Conv2D) (None, 25, 25, 32) 544 max_pooling2d (MaxPooling2D) (None, 12, 12, 32) 0 flatten (Flatten) (None, 4608) 0 dense (Dense) (None, 128) 589952 dense_1 (Dense) (None, 10) 1290 ===== Total params: 591,786 Trainable params: 591,786 Non-trainable params: 0 </pre>
2.	Accuracy	Training Accuracy – ✓ Loss : 0.1041 ✓ Accuracy : 0.9713 Validation Accuracy: ✓ Val_loss: 0.1025 ✓ Val_accuracy:0.9712	<pre> Epoch 11/15 1875/1875 [=====] - 6s 3ms/step - loss: 0.1056 - accuracy: 0.9708 - val_loss: 0.1035 - val_accuracy: 0.9711 Epoch 12/15 1875/1875 [=====] - 6s 3ms/step - loss: 0.1052 - accuracy: 0.9709 - val_loss: 0.1033 - val_accuracy: 0.9709 Epoch 13/15 1875/1875 [=====] - 7s 4ms/step - loss: 0.1048 - accuracy: 0.9711 - val_loss: 0.1031 - val_accuracy: 0.9713 Epoch 14/15 1875/1875 [=====] - 6s 3ms/step - loss: 0.1045 - accuracy: 0.9712 - val_loss: 0.1027 - val_accuracy: 0.9712 Epoch 15/15 1875/1875 [=====] - 7s 4ms/step - loss: 0.1041 - accuracy: 0.9713 - val_loss: 0.1025 - val_accuracy: 0.9712 </pre>

		<ul style="list-style-type: none">➤ Test loss:0.10245➤ Test accuracy:0.97119	<div><pre>model.evaluate(x_test,y_cat_test,verbose=0) #loss #accuracy</pre></div> <div><pre>[0.10245479643344879, 0.9711999893188477]</pre></div>
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