

Project Development Phase Model Performance Test

Date	10 November 2022
Team ID	PNT2022TMID52260
Project Name	Project – A Novel Method For Hand Written Recognition
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: 0.0181 val_loss: 0.1560 	<pre> fitting the model model.compile(optimizer='adam', loss='categorical_crossentropy', metrics=['accuracy']) Epoch 1/20 1000/1000 [====] - loss: 0.0258 - accuracy: 0.9405 - val_loss: 0.0802 - val_accuracy: 0.8714 Epoch 2/20 1000/1000 [====] - loss: 0.0192 - accuracy: 0.9705 - val_loss: 0.0863 - val_accuracy: 0.8739 Epoch 3/20 1000/1000 [====] - loss: 0.0095 - accuracy: 0.9945 - val_loss: 0.0892 - val_accuracy: 0.8761 Epoch 4/20 1000/1000 [====] - loss: 0.0058 - accuracy: 0.9977 - val_loss: 0.0885 - val_accuracy: 0.8800 Epoch 5/20 1000/1000 [====] - loss: 0.0032 - accuracy: 0.9992 - val_loss: 0.1044 - val_accuracy: 0.8753 Epoch 6/20 1000/1000 [====] - loss: 0.0029 - accuracy: 0.9993 - val_loss: 0.1173 - val_accuracy: 0.8794 Epoch 7/20 1000/1000 [====] - loss: 0.0026 - accuracy: 0.9993 - val_loss: 0.1275 - val_accuracy: 0.8748 Epoch 8/20 1000/1000 [====] - loss: 0.0027 - accuracy: 0.9948 - val_loss: 0.1423 - val_accuracy: 0.8779 Epoch 9/20 1000/1000 [====] - loss: 0.0027 - accuracy: 0.9998 - val_loss: 0.1523 - val_accuracy: 0.8798 Epoch 10/20 1000/1000 [====] - loss: 0.0025 - accuracy: 0.9997 - val_loss: 0.1671 - val_accuracy: 0.8793 Epoch 11/20 1000/1000 [====] - loss: 0.0024 - accuracy: 0.9996 - val_loss: 0.1805 - val_accuracy: 0.8796 Epoch 12/20 1000/1000 [====] - loss: 0.0024 - accuracy: 0.9997 - val_loss: 0.1958 - val_accuracy: 0.8797 </pre>
2.	Accuracy	Training Accuracy – 0.9957 Validation Accuracy -0.9797	<pre> fitting the model model.compile(optimizer='adam', loss='categorical_crossentropy', metrics=['accuracy']) Epoch 1/20 1000/1000 [====] - loss: 0.0258 - accuracy: 0.9405 - val_loss: 0.0802 - val_accuracy: 0.8714 Epoch 2/20 1000/1000 [====] - loss: 0.0192 - accuracy: 0.9705 - val_loss: 0.0863 - val_accuracy: 0.8739 Epoch 3/20 1000/1000 [====] - loss: 0.0095 - accuracy: 0.9945 - val_loss: 0.0892 - val_accuracy: 0.8761 Epoch 4/20 1000/1000 [====] - loss: 0.0058 - accuracy: 0.9977 - val_loss: 0.0885 - val_accuracy: 0.8800 Epoch 5/20 1000/1000 [====] - loss: 0.0032 - accuracy: 0.9992 - val_loss: 0.1044 - val_accuracy: 0.8753 Epoch 6/20 1000/1000 [====] - loss: 0.0029 - accuracy: 0.9993 - val_loss: 0.1173 - val_accuracy: 0.8794 Epoch 7/20 1000/1000 [====] - loss: 0.0026 - accuracy: 0.9993 - val_loss: 0.1275 - val_accuracy: 0.8748 Epoch 8/20 1000/1000 [====] - loss: 0.0027 - accuracy: 0.9948 - val_loss: 0.1423 - val_accuracy: 0.8779 Epoch 9/20 1000/1000 [====] - loss: 0.0027 - accuracy: 0.9998 - val_loss: 0.1523 - val_accuracy: 0.8798 Epoch 10/20 1000/1000 [====] - loss: 0.0025 - accuracy: 0.9997 - val_loss: 0.1671 - val_accuracy: 0.8793 Epoch 11/20 1000/1000 [====] - loss: 0.0024 - accuracy: 0.9996 - val_loss: 0.1805 - val_accuracy: 0.8796 Epoch 12/20 1000/1000 [====] - loss: 0.0024 - accuracy: 0.9997 - val_loss: 0.1958 - val_accuracy: 0.8797 </pre>