Project Design Phase

Model Performance Test

Date	19 November 2022
Team ID	PNT2022TMID43340
Project Name	A Novel method for Handwritten Digit Recognition
Maximum Marks	10 Marks

Model Performance Testing

1. MODEL SUMMARY

Model Summary

```
model.summary()
```

```
Model: "sequential"
_________________________________________________________________
 Layer (type)                Output Shape              Param #
=================================================================
 conv2d (Conv2D)             (None, 26, 26, 64)        640

 conv2d_1 (Conv2D)           (None, 24, 24, 32)        18464

 flatten (Flatten)           (None, 18432)             0

 dense (Dense)               (None, 10)                184330

=================================================================
Total params: 203,434
Trainable params: 203,434
Non-trainable params: 0
_________________________________________________________________
```

2. Accuracy

Values:
Test Loss: 0.1216
Test Accuracy: 0.9756

Observing the metrics

```
metrics = model.evaluate(X_test, Y_test, verbose=0)
print("Metrics (Test Loss & Test Accuracy): ")
print(metrics)
```

```
Metrics (Test Loss & Test Accuracy):
[0.12167926877737045, 0.975600004196167]
```