

Project Design Phase

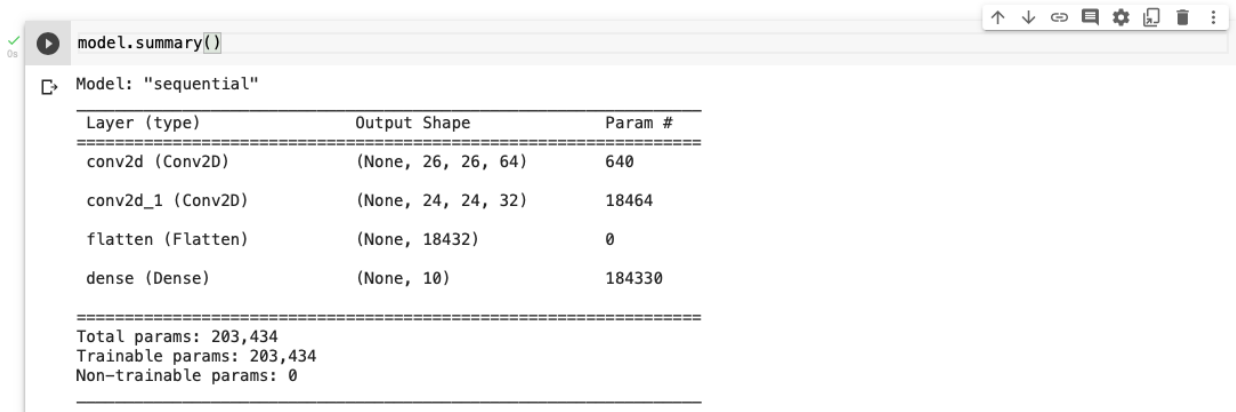
Model Performance Test

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()
```

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):
[0.1216792687737045, 0.975600004196167]