PERFORMANCE TESTING

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
_____
```
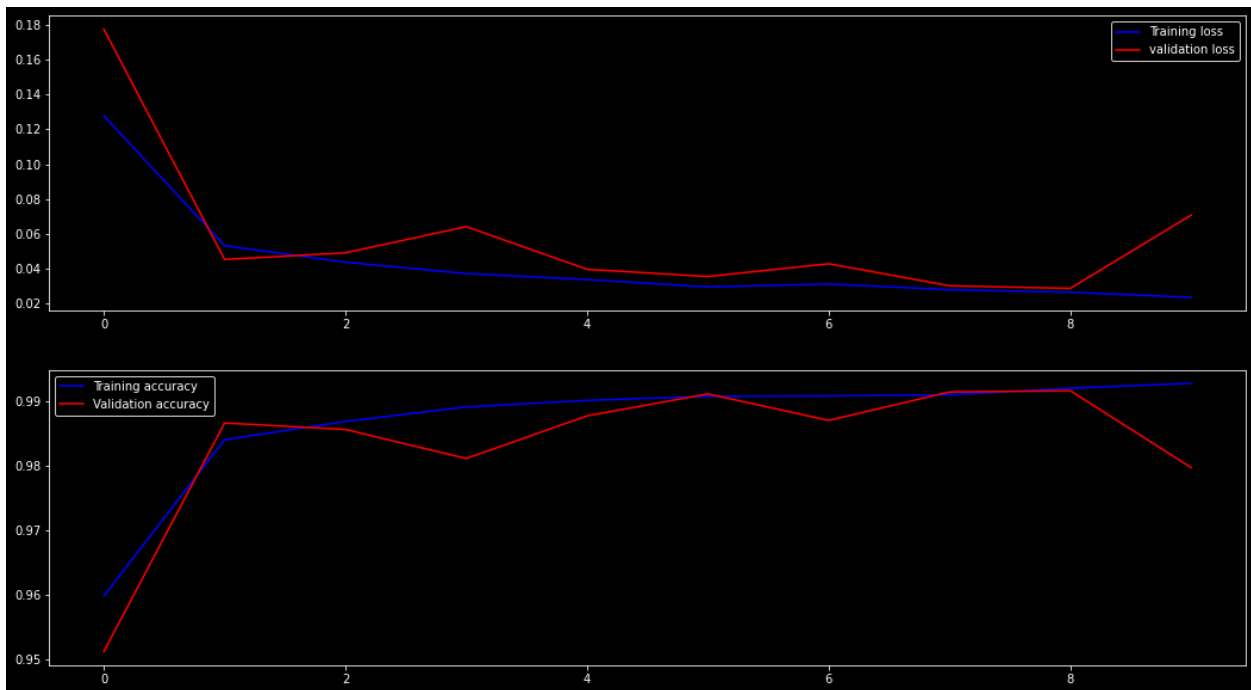
ACCURACY

CONTENT	VALUE
Training Accuracy	99.14%
Training Loss	2.70%
Validation Accuracy	97.76%
Validation Loss	10.36%

CONFUSION MATRIX

	0	1	2	3	4	5	6	7	8	9
0	951	0	0	0	0	0	2	0	0	0
1	0	1119	0	0	3	0	2	1	0	0
2	5	2	1020	0	6	0	21	9	0	0
3	2	6	11	1009	0	3	1	5	6	2
4	0	0	0	0	936	0	0	0	0	1
5	12	1	1	1	1	888	13	0	1	3
6	1	1	0	0	2	1	916	0	0	0
7	2	5	0	0	4	0	0	1012	1	2
8	7	1	0	0	0	0	3	0	966	0
9	0	0	0	0	30	0	0	1	0	1001

True Values (vertical axis) — Predicted Values (horizontal axis)
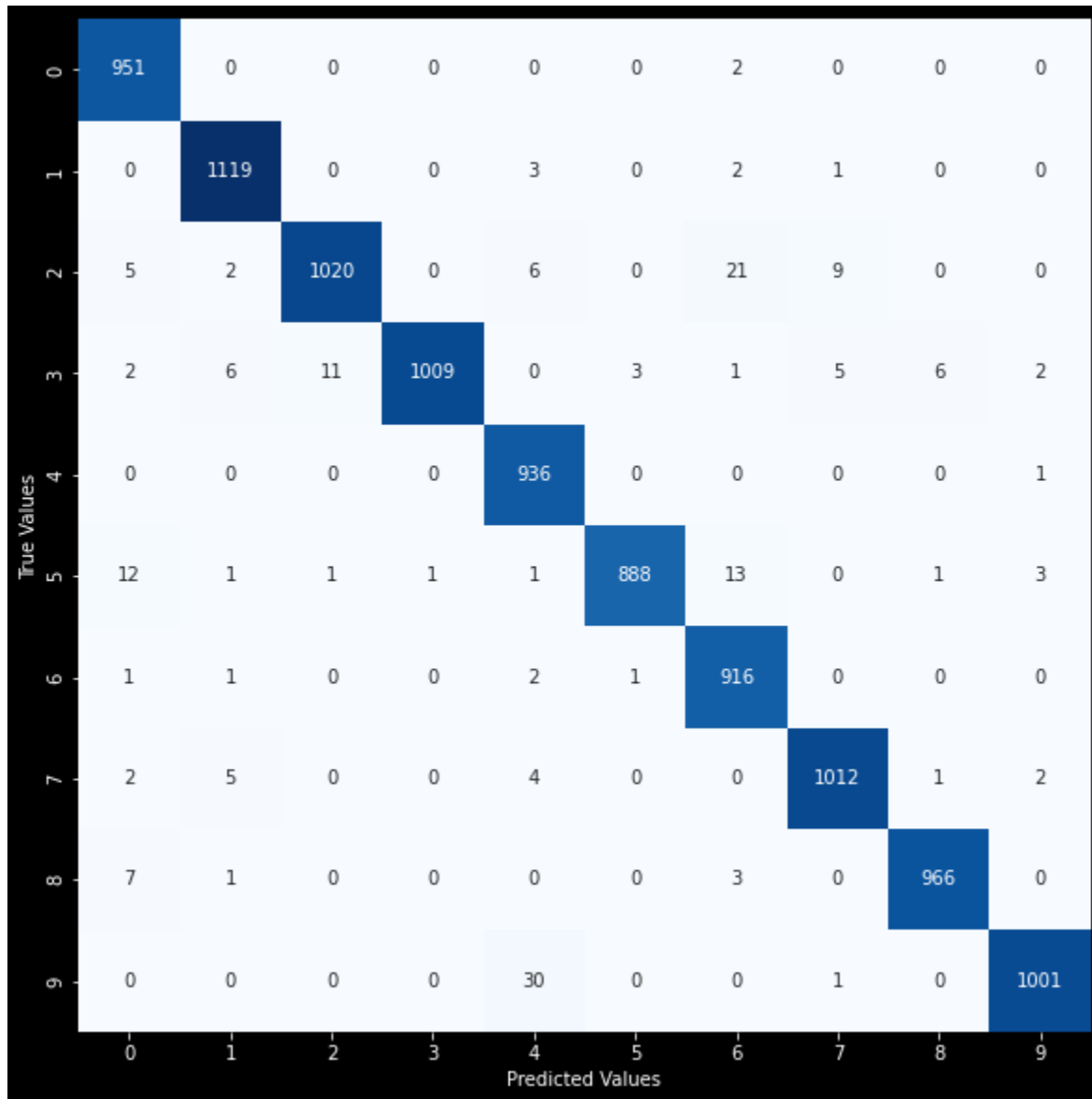
CLASSIFICATION REPORT

	precision	recall	f1-score	support
0	1.00	0.97	0.98	980
1	0.99	0.99	0.99	1135
2	0.96	0.99	0.97	1032
3	0.97	1.00	0.98	1010
4	1.00	0.95	0.98	982
5	0.96	1.00	0.98	892
6	0.99	0.96	0.97	958
7	0.99	0.98	0.99	1028
8	0.99	0.99	0.99	974
9	0.97	0.99	0.98	1009
accuracy			0.98	10000
macro avg	0.98	0.98	0.98	10000
weighted avg	0.98	0.98	0.98	10000