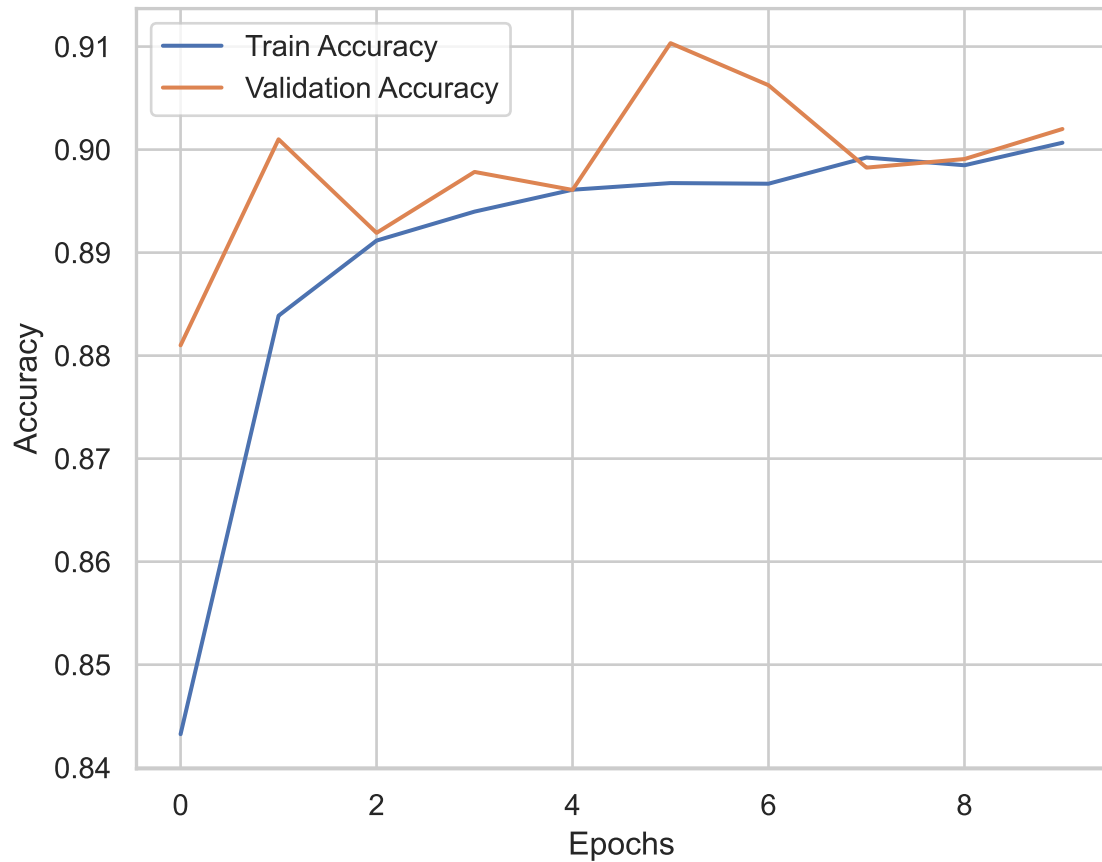
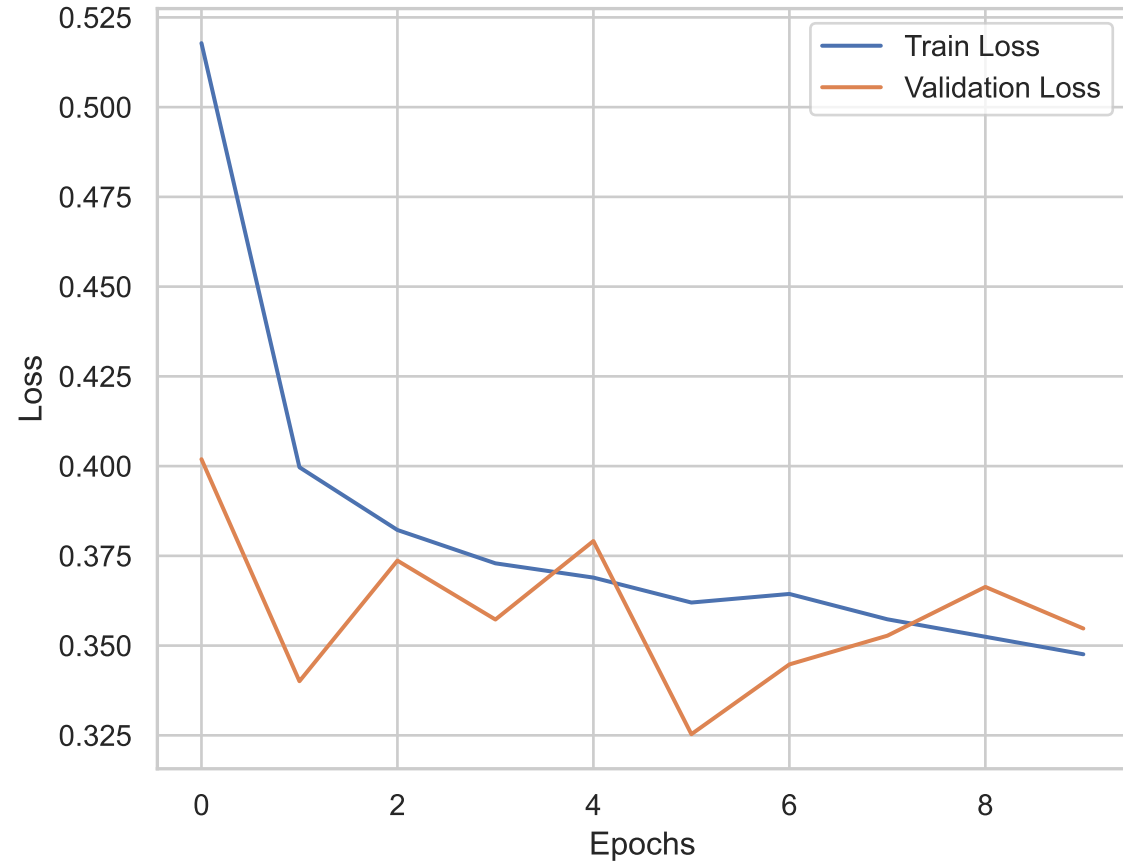


Accuracy Over Epochs

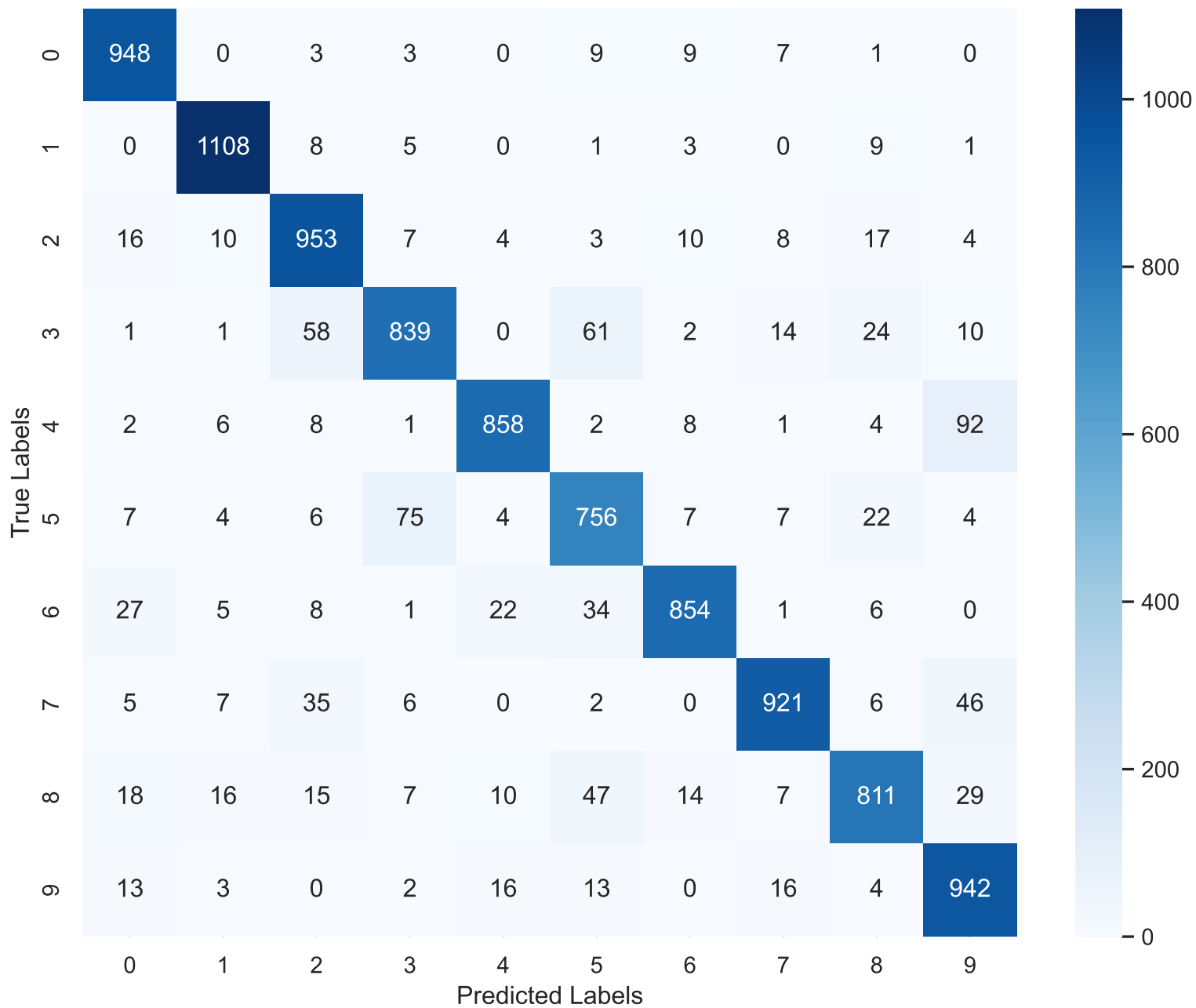


Loss Over Epochs

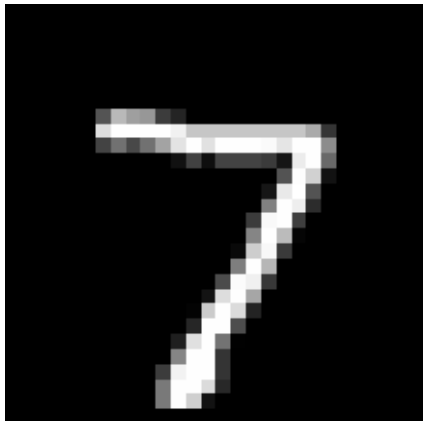


precision	0.99	0.99	0.98	0.98	0.98	0.99	0.99	0.97	0.98	0.98	0.98
recall	0.99	0.99	0.99	0.99	0.99	0.97	0.98	0.98	0.97	0.97	0.98
f1-score	0.99	0.99	0.99	0.98	0.98	0.98	0.99	0.98	0.98	0.98	0.98
support	980.00	1135.00	1032.00	1010.00	982.00	892.00	958.00	1028.00	974.00	1009.00	0000.00
	0	1	2	3	4	5	6	7	8	9	macro avg

Confusion Matrix



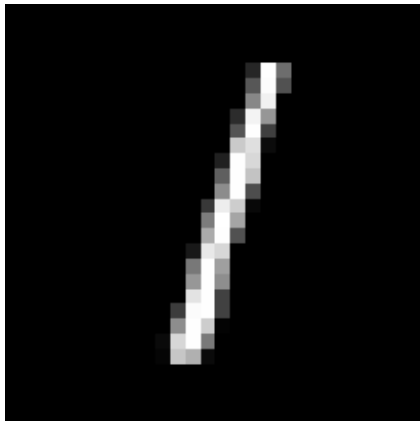
True: 7
Pred: 7



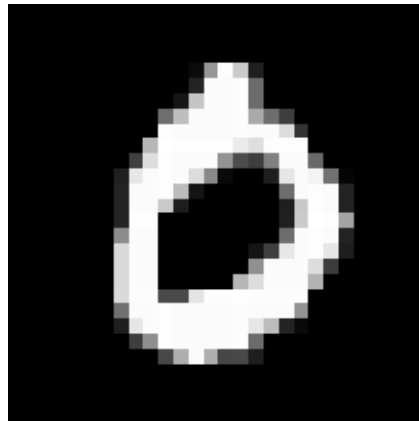
True: 2
Pred: 2



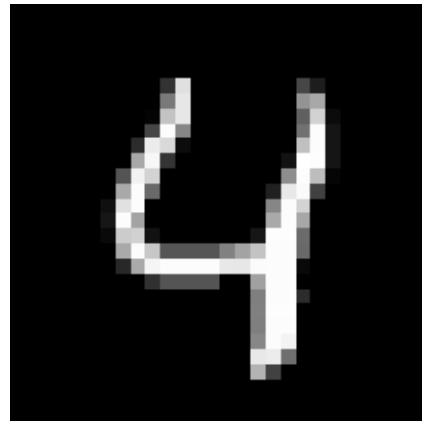
True: 1
Pred: 1



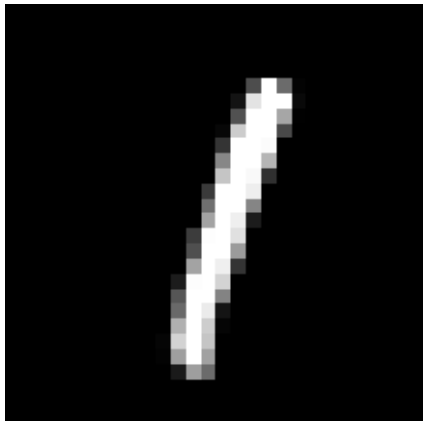
True: 0
Pred: 0



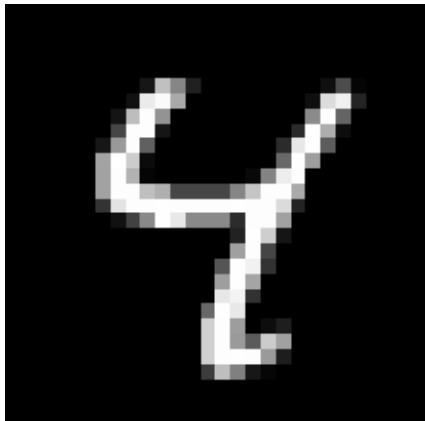
True: 4
Pred: 4



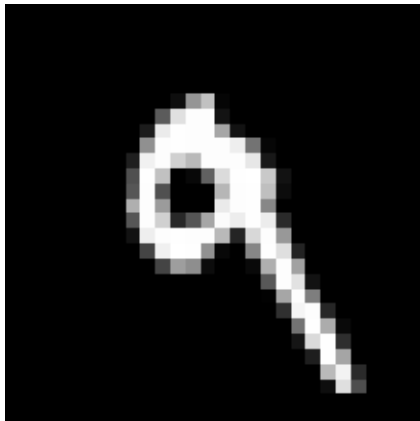
True: 1
Pred: 1



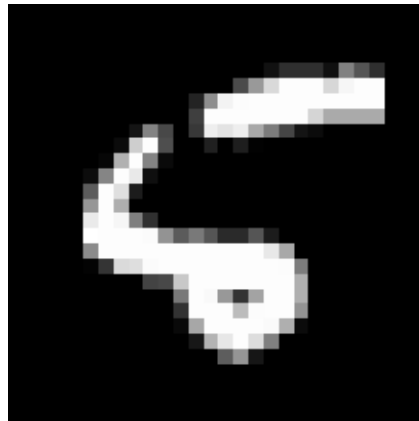
True: 4
Pred: 4



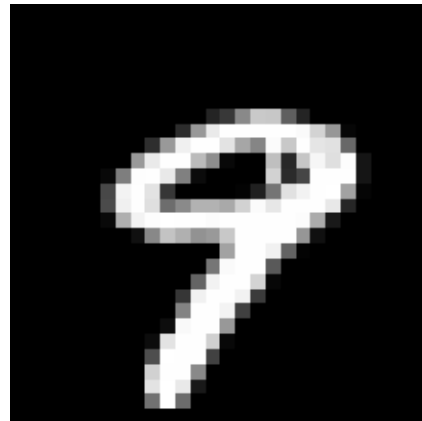
True: 9
Pred: 9



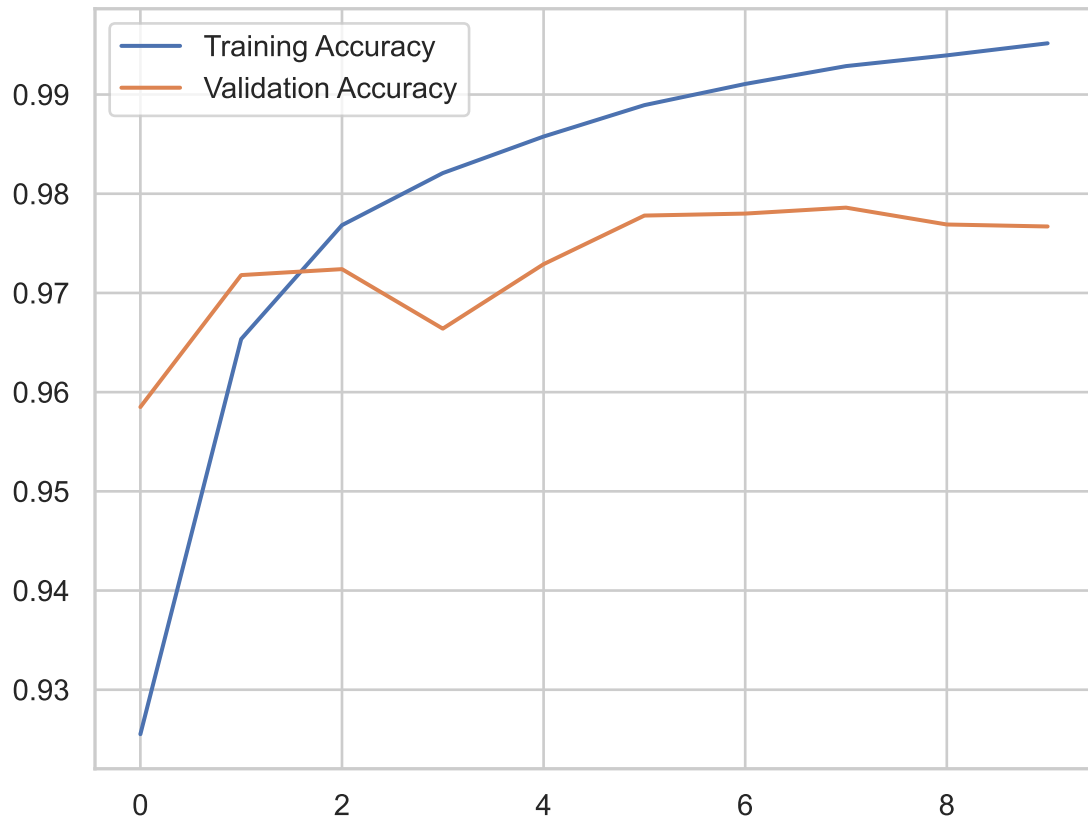
True: 5
Pred: 6



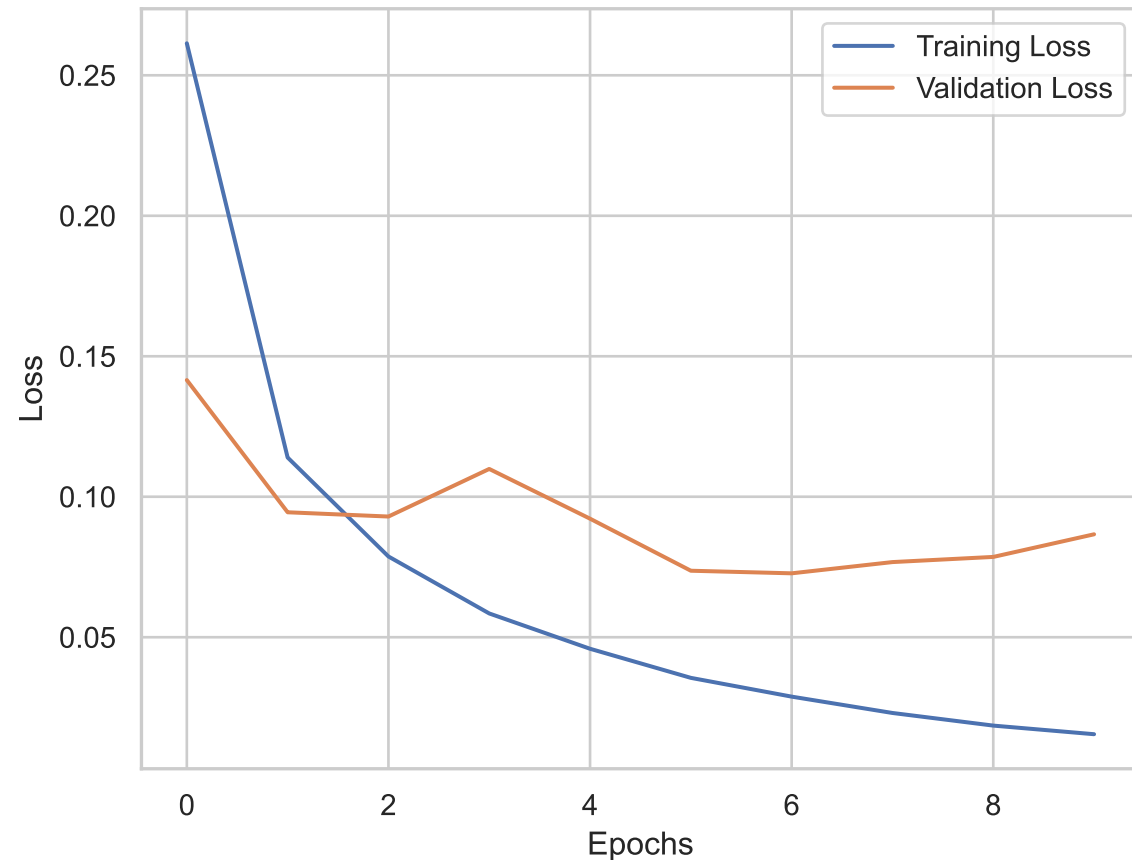
True: 9
Pred: 9



Training and Validation Accuracy

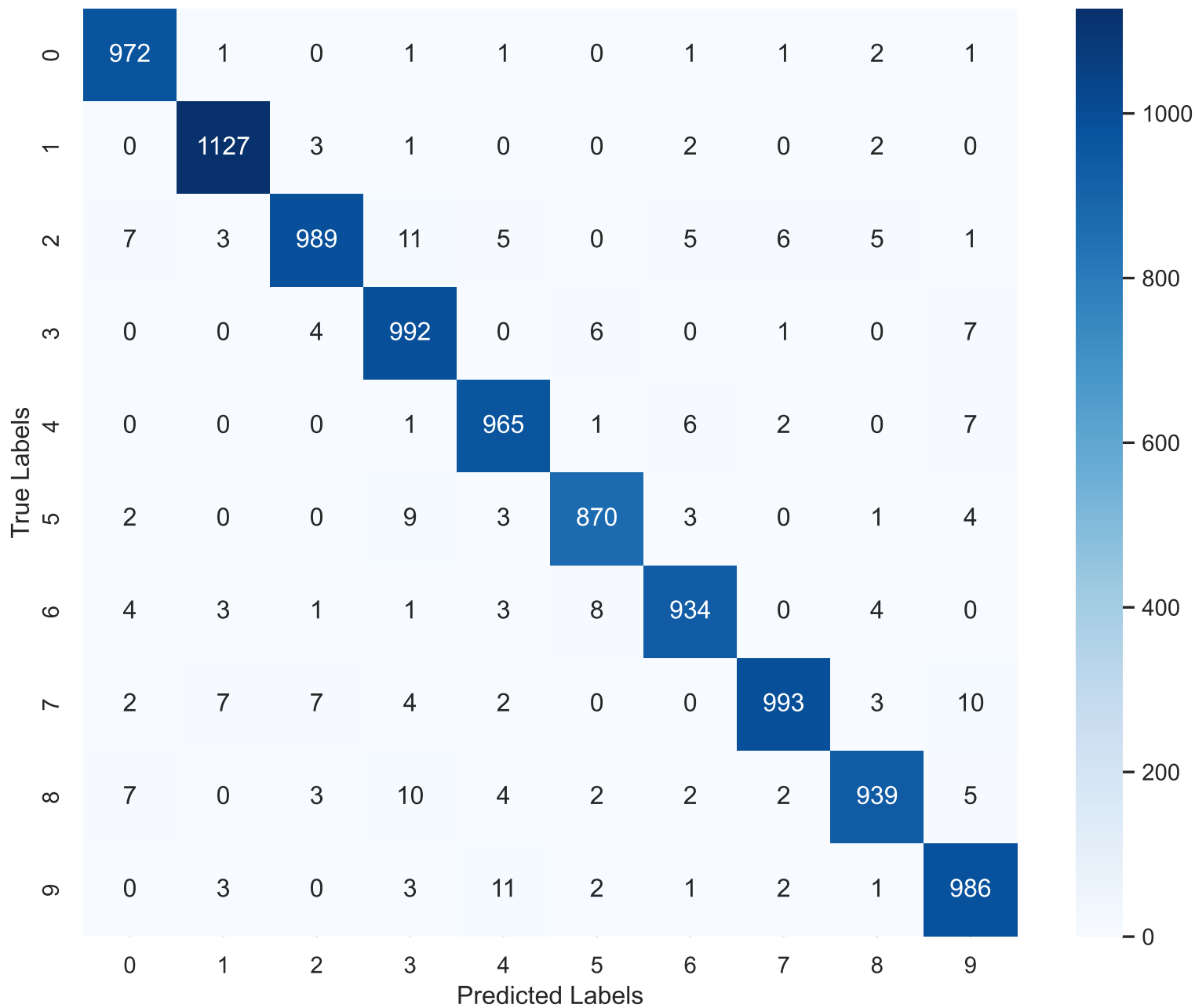


Training and Validation Loss

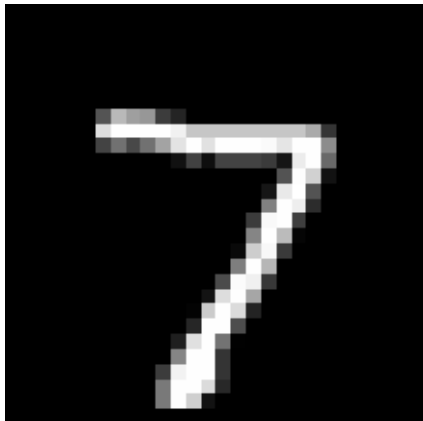


precision	0.99	0.99	0.98	0.98	0.98	0.99	0.99	0.97	0.98	0.98	0.98
recall	0.99	0.99	0.99	0.99	0.99	0.97	0.98	0.98	0.97	0.97	0.98
f1-score	0.99	0.99	0.99	0.98	0.98	0.98	0.99	0.98	0.98	0.98	0.98
support	980.00	1135.00	1032.00	1010.00	982.00	892.00	958.00	1028.00	974.00	1009.00	0000.00
	0	1	2	3	4	5	6	7	8	9	macro avg

Confusion Matrix



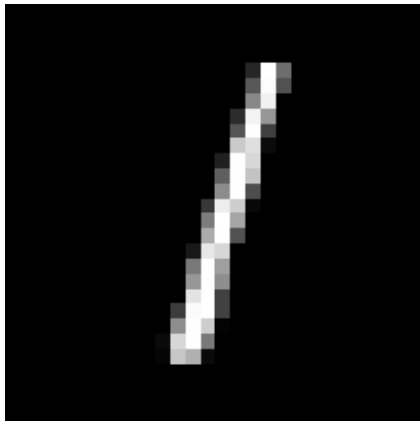
True: 7
Pred: 7



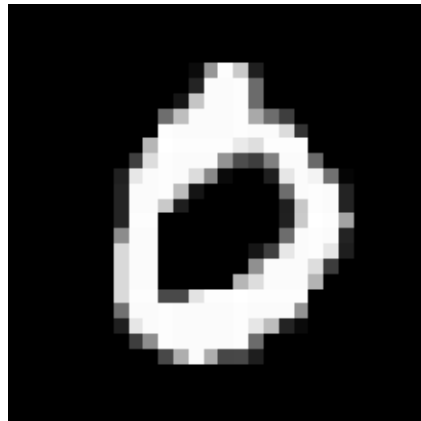
True: 2
Pred: 2



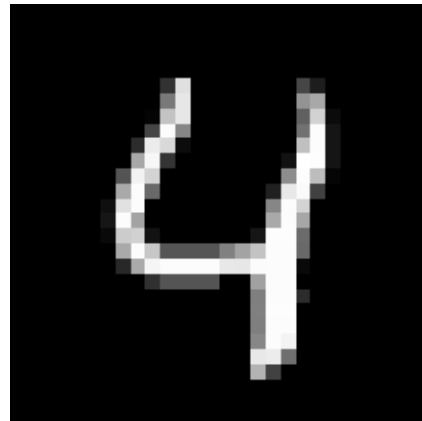
True: 1
Pred: 1



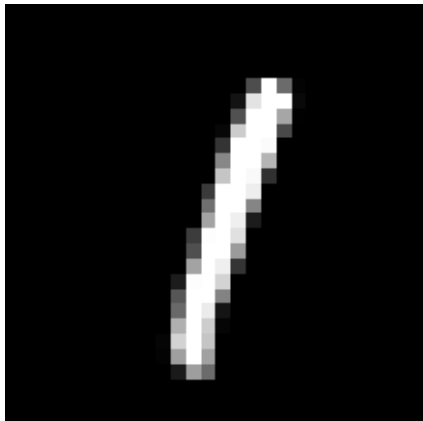
True: 0
Pred: 0



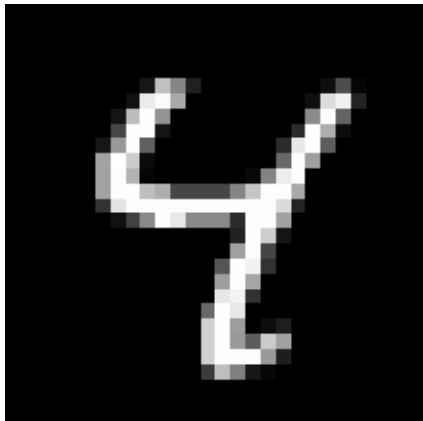
True: 4
Pred: 4



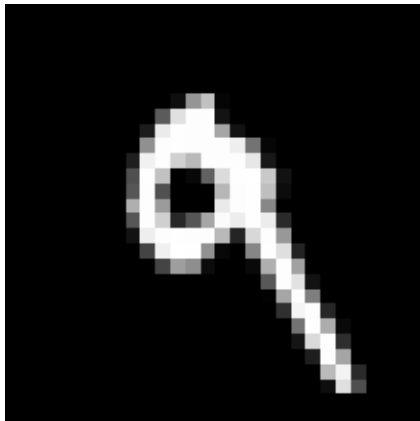
True: 1
Pred: 1



True: 4
Pred: 4



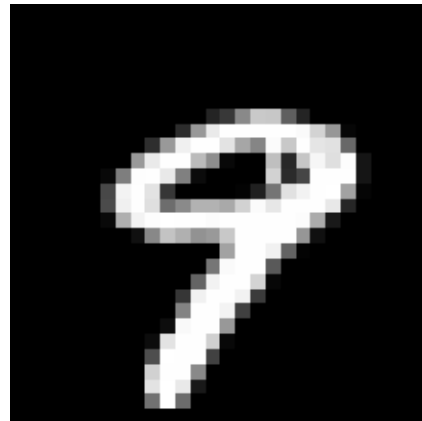
True: 9
Pred: 9



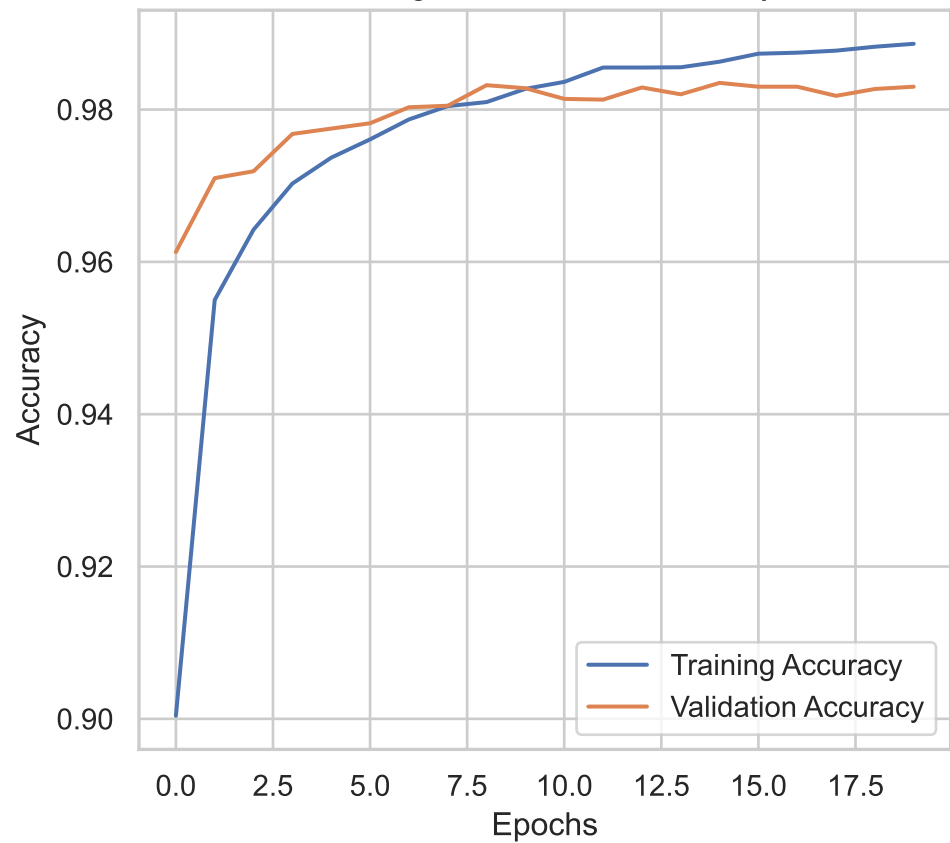
True: 5
Pred: 5



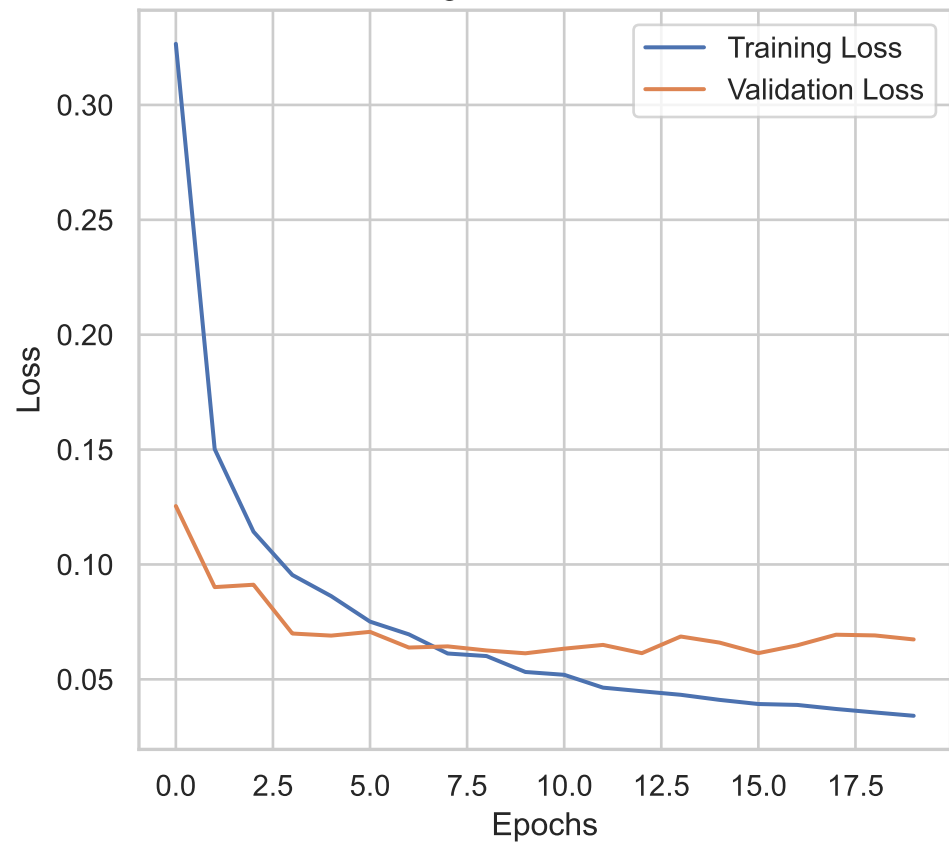
True: 9
Pred: 9



Training and Validation Accuracy

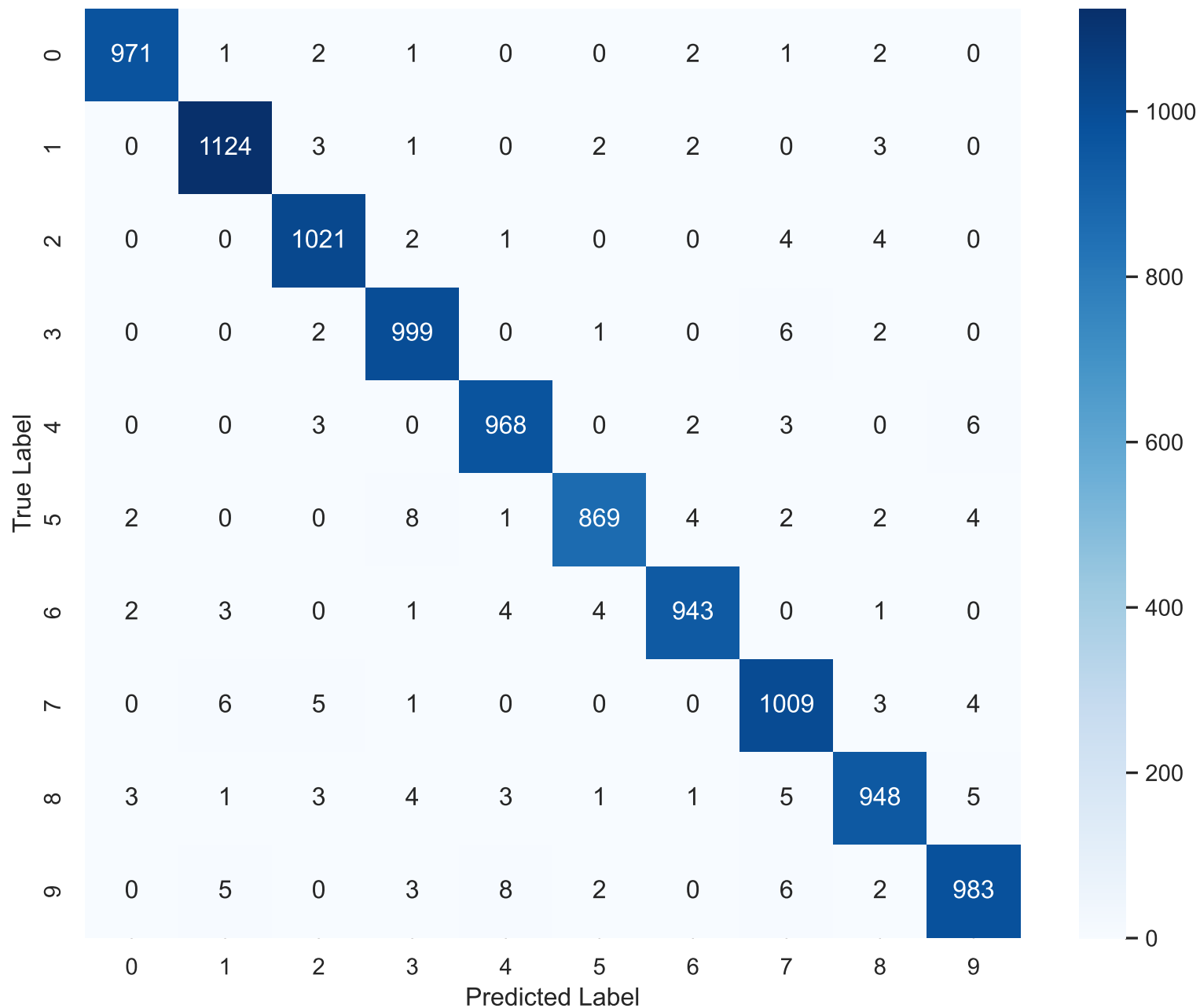


Training and Validation Loss



precision	0.99	0.99	0.98	0.98	0.98	0.99	0.99	0.97	0.98	0.98	0.98
recall	0.99	0.99	0.99	0.99	0.99	0.97	0.98	0.98	0.97	0.97	0.98
f1-score	0.99	0.99	0.99	0.98	0.98	0.98	0.99	0.98	0.98	0.98	0.98
support	980.00	1135.00	1032.00	1010.00	982.00	892.00	958.00	1028.00	974.00	1009.00	0000.00
	0	1	2	3	4	5	6	7	8	9	macro avg

Confusion Matrix



Discussion Questions

Generated Report

1. Epochs: An epoch refers to one complete pass through the dataset. Increasing epochs allows the model to refine parameters but may overfit if excessive.
2. Batch Size: Batch size is the number of samples processed before updating the model. Smaller batches generalize better; larger ones train faster but may overfit.
3. Dropout: Dropout randomly disables neurons during training to prevent overfitting. This ensures the model learns robust and distributed representations.