

CHANDNI GUPTA
E22CSEU0955
LAB-5
TASK-1

Lossy Compression (Quality=30)

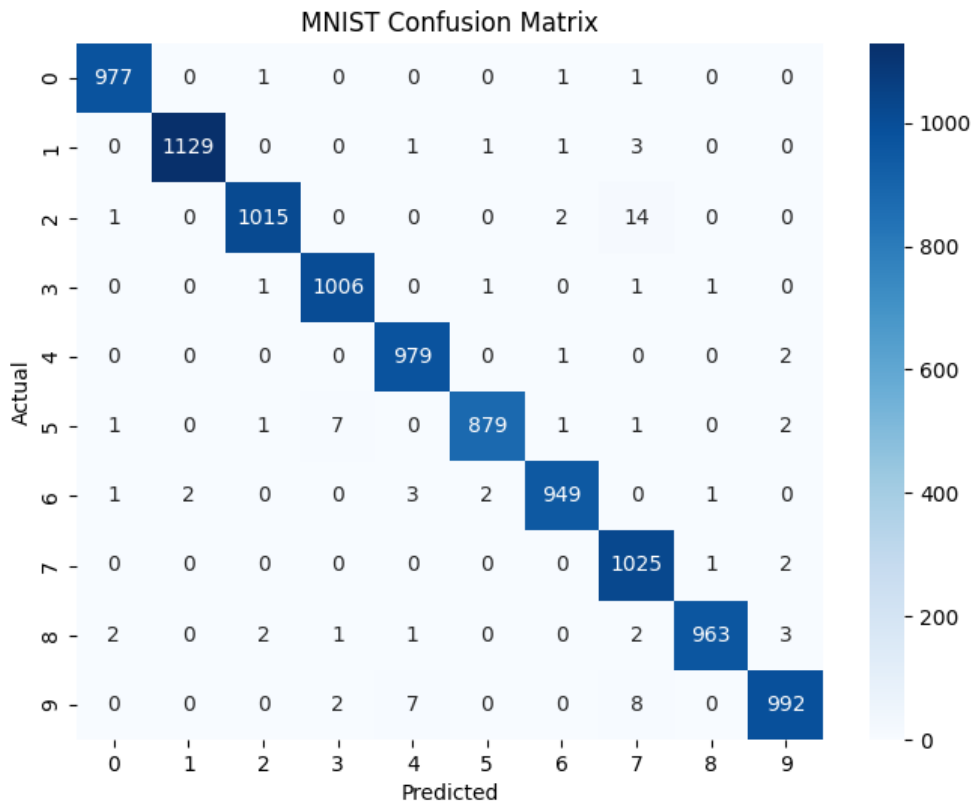


Lossless Compression (Compression Level=9)



TASK-2

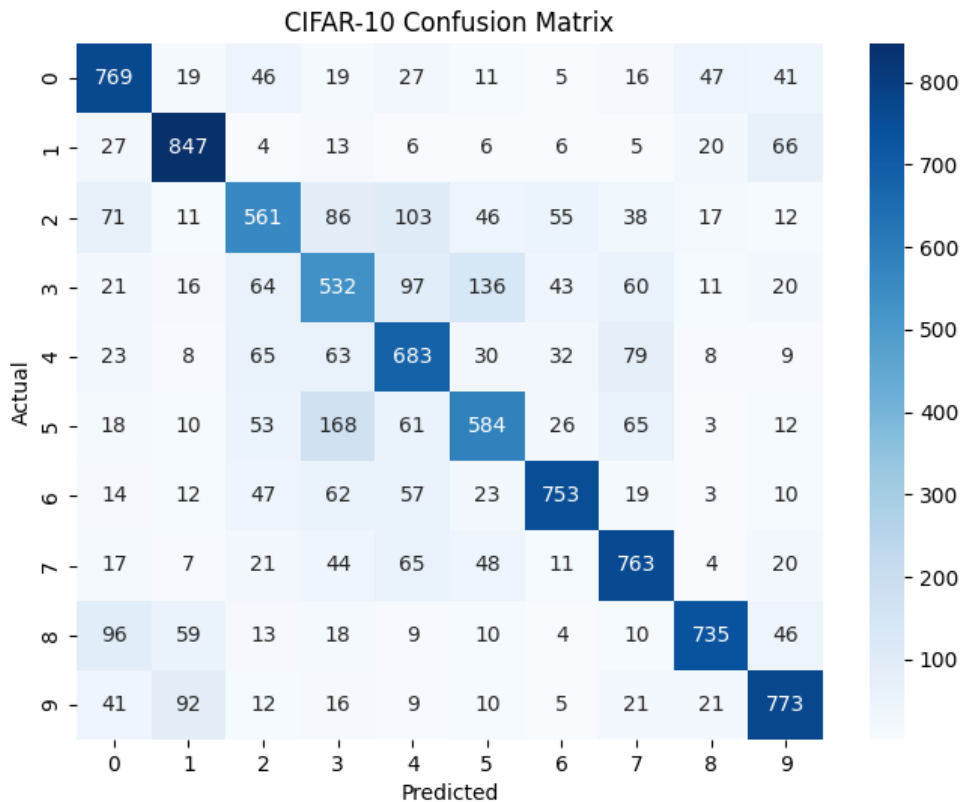
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```
Epoch 50/50
1875/1875 25s 13ms/step - accuracy: 0.9994 - loss: 0.0021 - val_accuracy: 0.9914 - val_loss: 0.0916
313/313 2s 6ms/step
precision recall f1-score support
0 0.99 1.00 1.00 980
1 1.00 0.99 1.00 1135
2 1.00 0.98 0.99 1032
3 0.99 1.00 0.99 1010
4 0.99 1.00 0.99 982
5 1.00 0.99 0.99 892
6 0.99 0.99 0.99 958
7 0.97 1.00 0.98 1028
8 1.00 0.99 0.99 974
9 0.99 0.98 0.99 1009

accuracy 0.99 10000
macro avg 0.99 0.99 0.99 10000
weighted avg 0.99 0.99 0.99 10000
```

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```
Epoch 50/50
1563/1563 28s 18ms/step - accuracy: 0.9763 - loss: 0.0774 - val_accuracy: 0.7000 - val_loss: 3.0010
313/313 3s 9ms/step
precision recall f1-score support
0 0.70 0.77 0.73 1000
1 0.78 0.85 0.81 1000
2 0.63 0.56 0.59 1000
3 0.52 0.53 0.53 1000
4 0.61 0.68 0.65 1000
5 0.65 0.58 0.61 1000
6 0.80 0.75 0.78 1000
7 0.71 0.76 0.74 1000
8 0.85 0.73 0.79 1000
9 0.77 0.77 0.77 1000

accuracy 0.70
macro avg 0.70
weighted avg 0.70
```