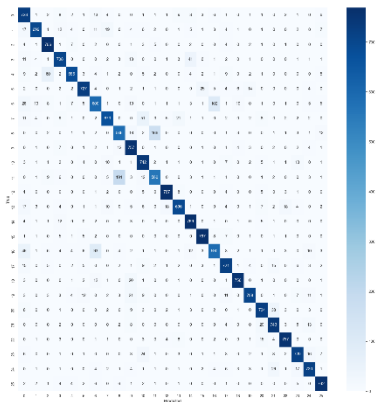
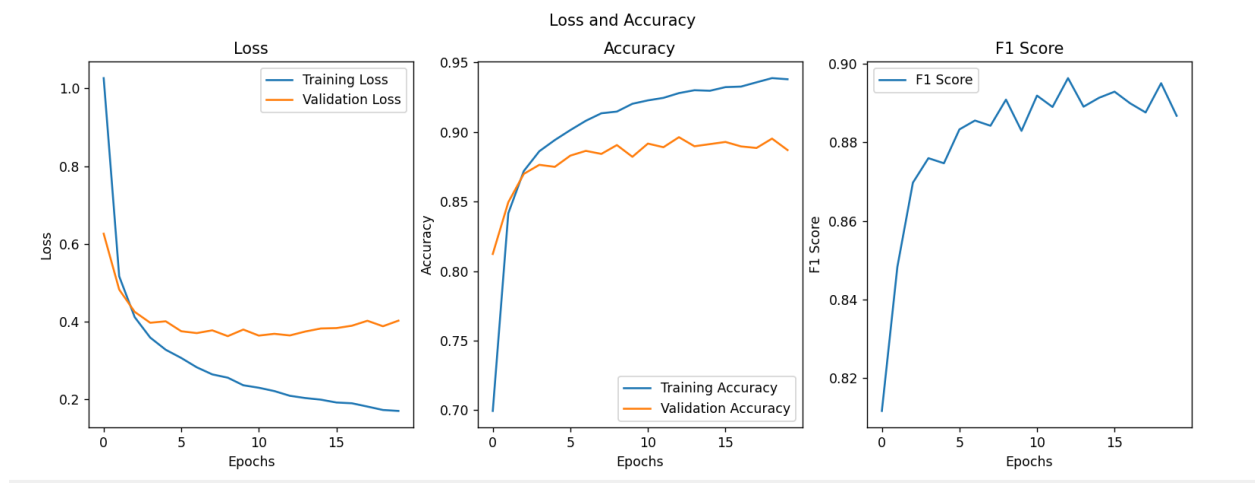


Model_1:

```
1 network = [  
5     Dense(784, 128),  
6     ReLU(),  
7     Dense(128, 64),  
8     ReLU(),  
9     Dense(64, 26),  
10    Softmax()  
11 ]
```

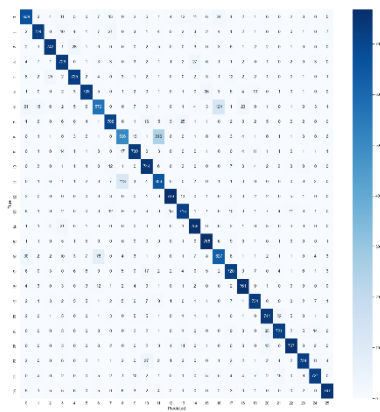
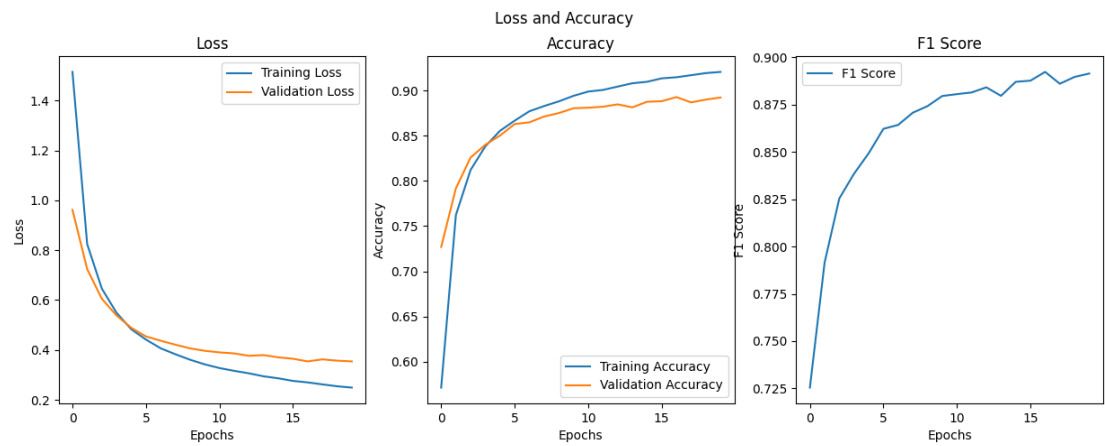
LR: 5e-3

Test Loss: 0.419, Accuracy: 0.886, F1 Score: 0.886



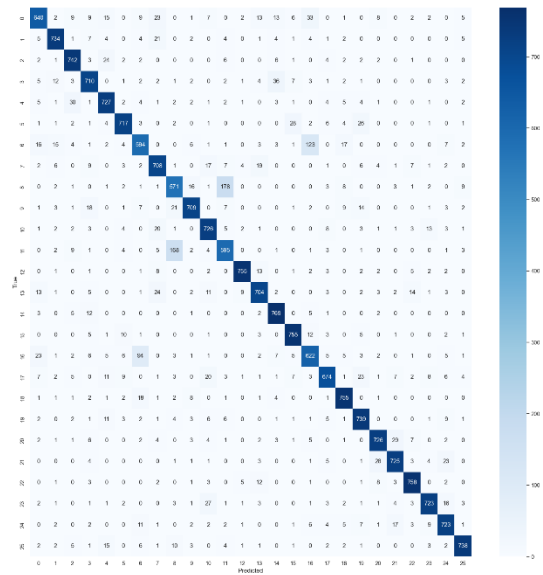
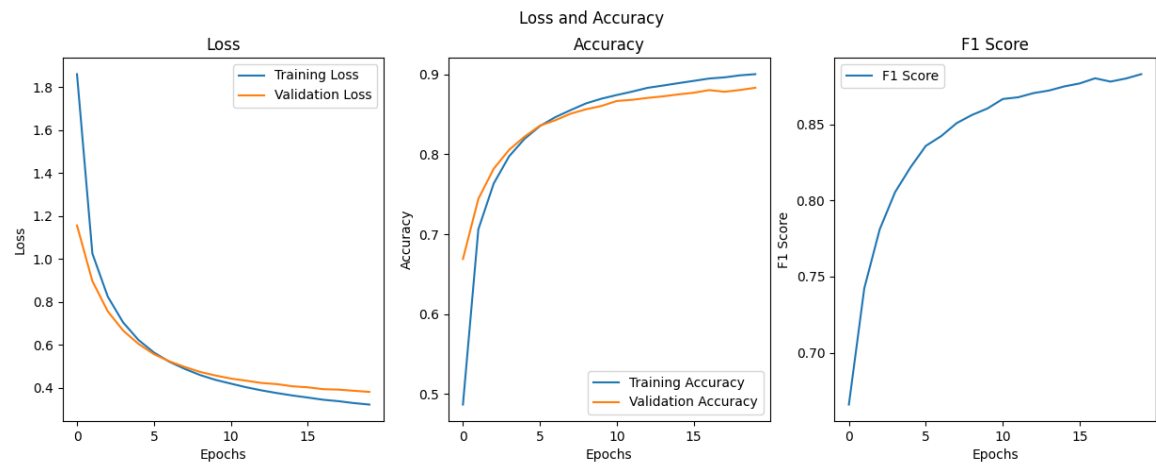
LR: 1e-3

Test Loss: 0.358, Accuracy: 0.889, F1 Score: 0.889



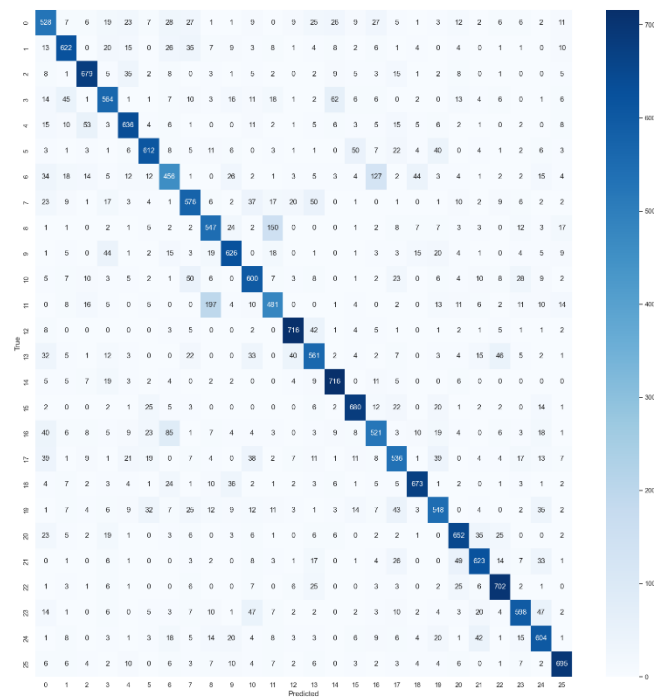
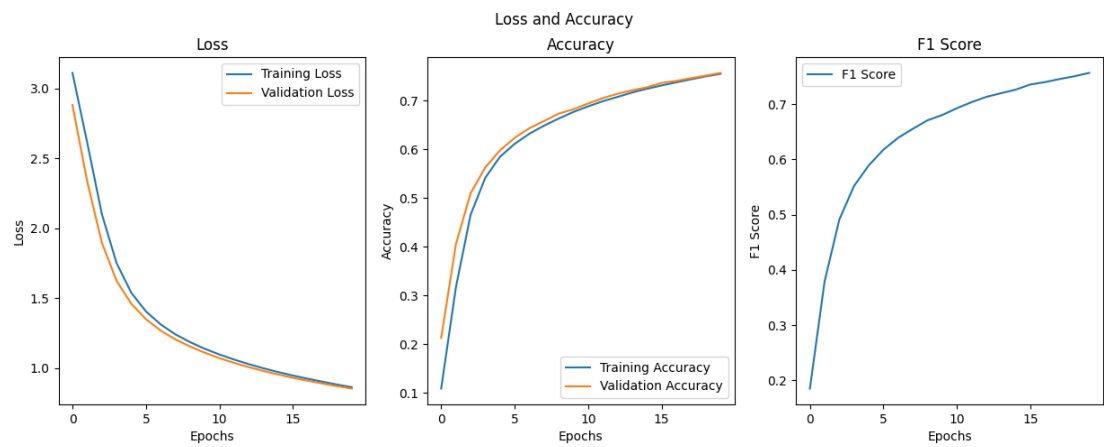
LR: 5e-4

Test Loss: 0.390, Accuracy: 0.882, F1 Score: 0.882



LR: 5e-5

Test Loss: 0.862, Accuracy: 0.757, F1 Score: 0.757

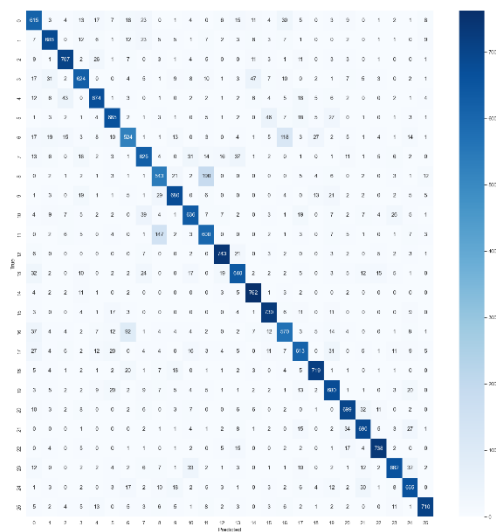
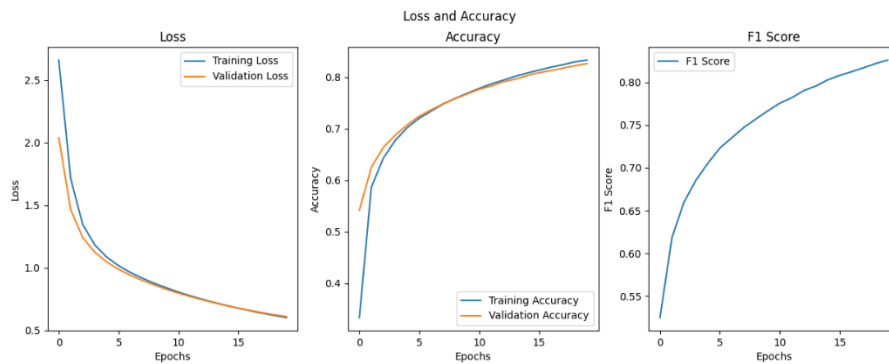


Model_2:

```
4
5 network = [
6     Dense(784, 1024),
7     ReLU(),
8     Dense(1024, 26),
9     Softmax()
10 ]
11
```

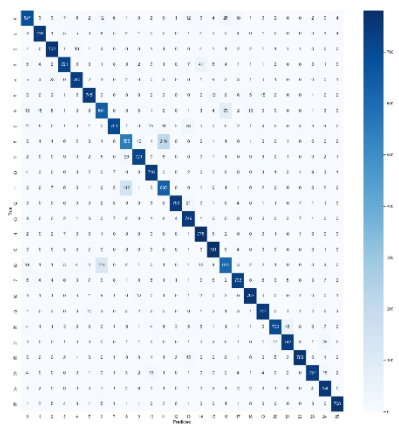
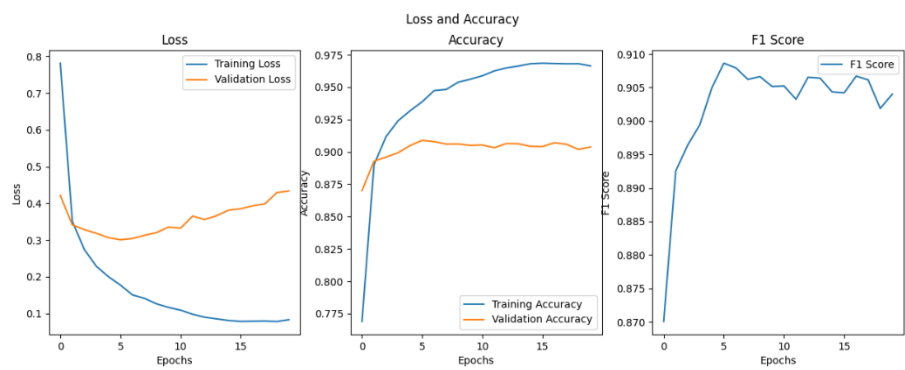
LR: 5e-5

Test Loss: 0.618, Accuracy: 0.827, F1 Score: 0.827



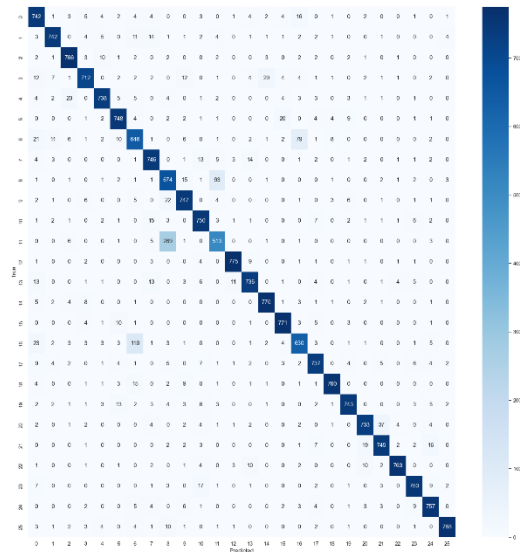
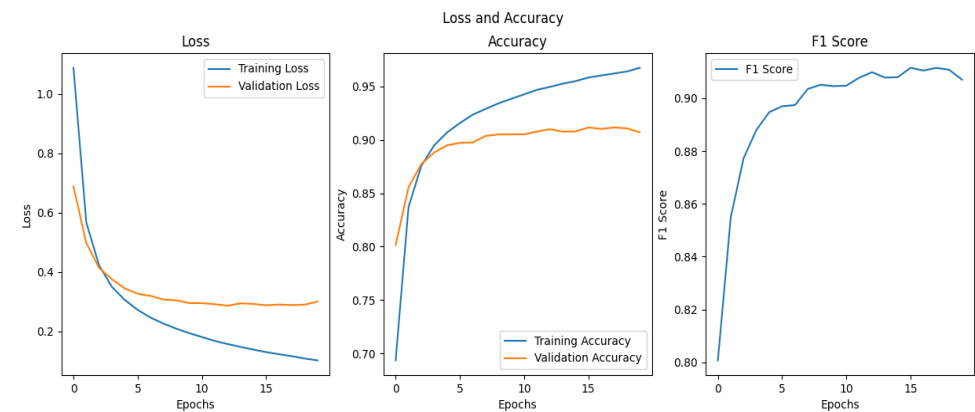
LR: 5e-3

Test Loss: 0.459, Accuracy: 0.903, F1 Score: 0.903



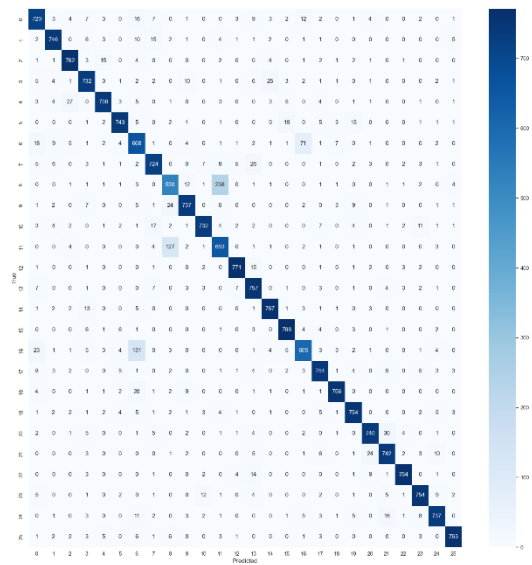
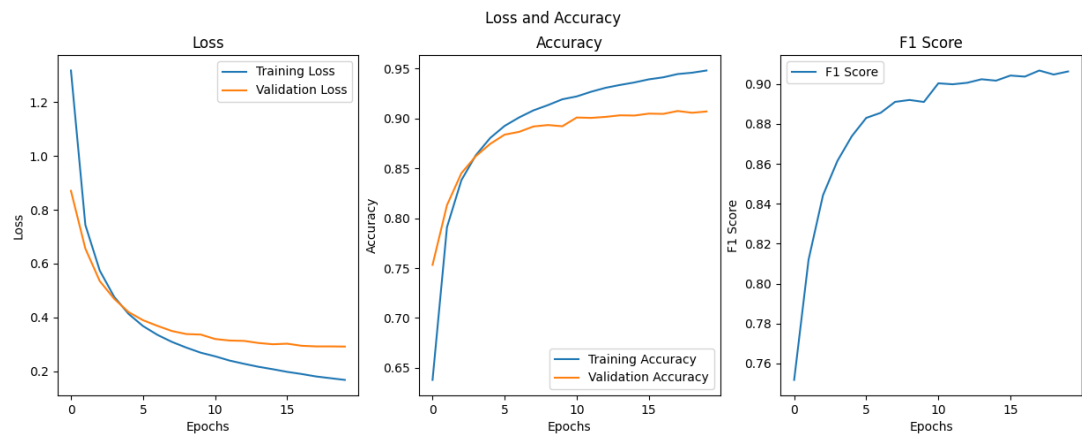
LR: 1e-3 (BEST)

Test Loss: 0.296, Accuracy: 0.912, F1 Score: 0.912



LR: 5e-4

Test Loss: 0.296, Accuracy: 0.909, F1 Score: 0.909

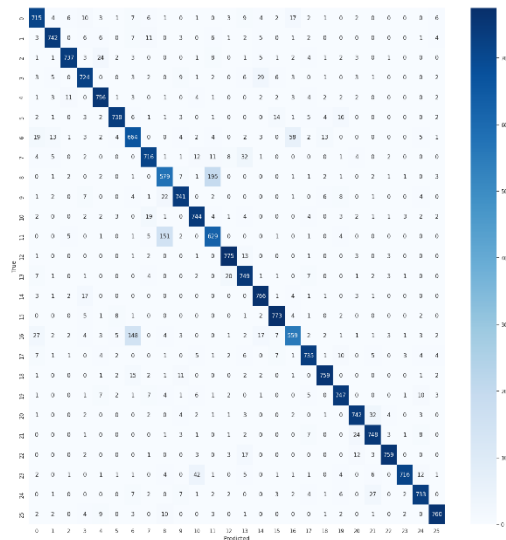
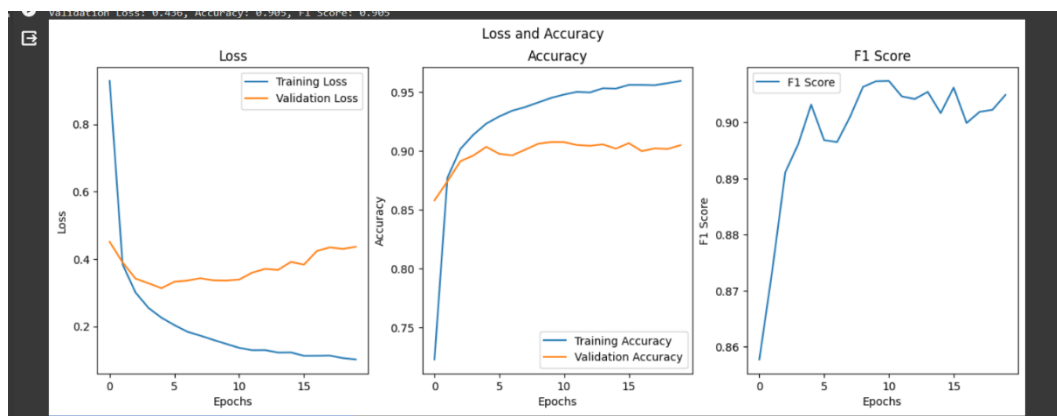


Model3:

```
network = [  
    Dense(784, 512),  
    ReLU(),  
    Dense(512, 128),  
    ReLU(),  
    Dense(128, 64),  
    ReLU(),  
    Dense(64, 26),  
    Softmax()  
]
```

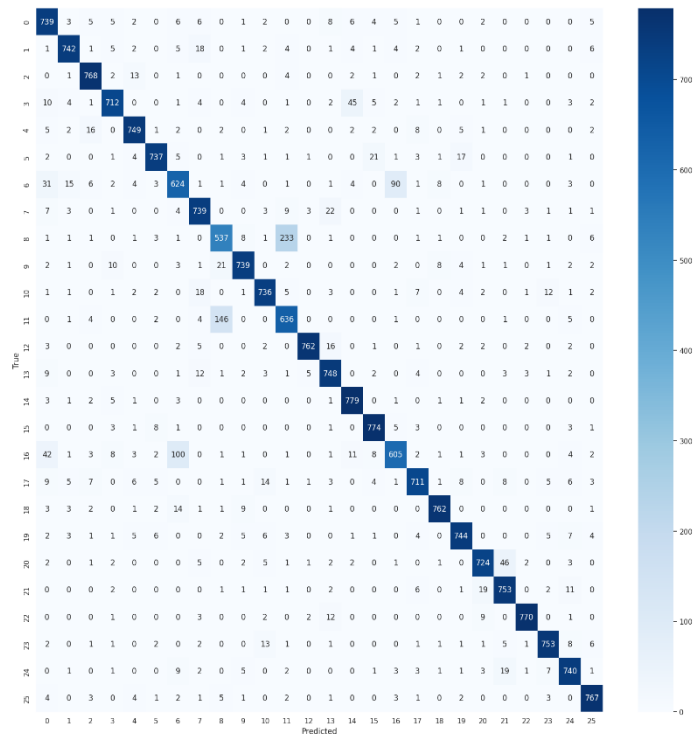
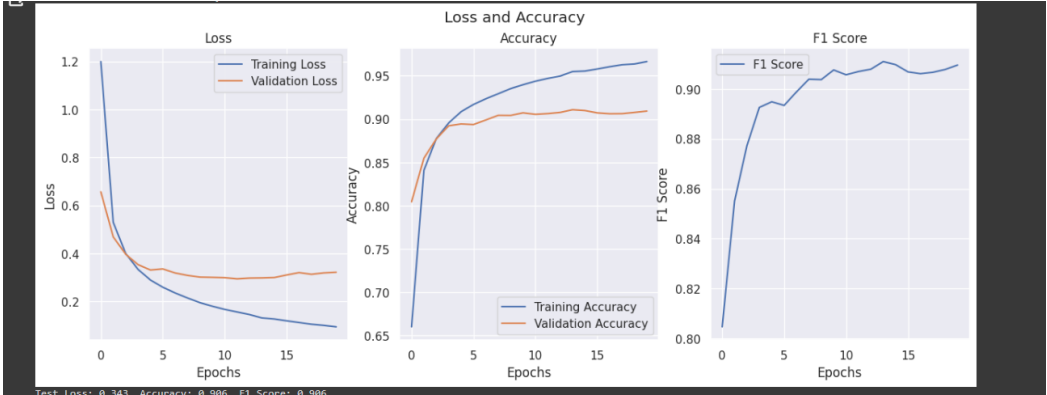
LR: 5e-3

Test Loss: 0.436, Accuracy: 0.904, F1 Score: 0.904



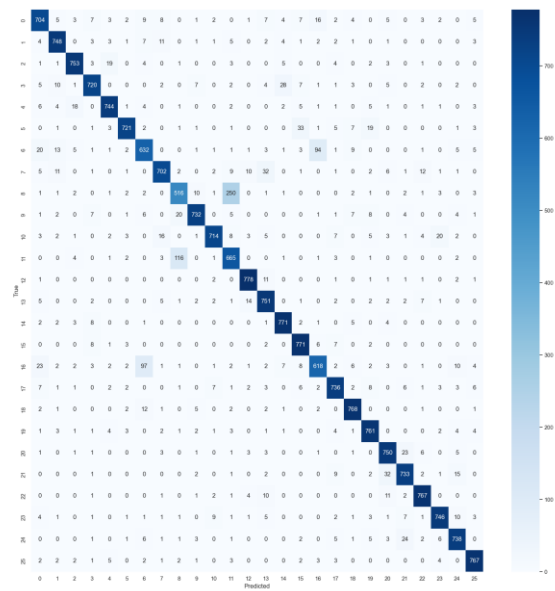
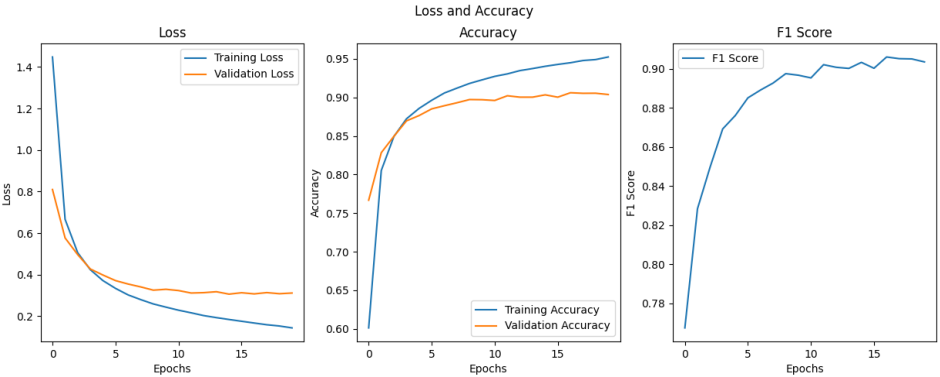
LR: 1e-3

Test Loss: 0.343, Accuracy: 0.906, F1 Score: 0.906



LR: 5e-4

Test Loss: 0.315, Accuracy: 0.904, F1 Score: 0.904



LR: 5e-5

Test Loss: 0.519, Accuracy: 0.848, F1 Score: 0.847

