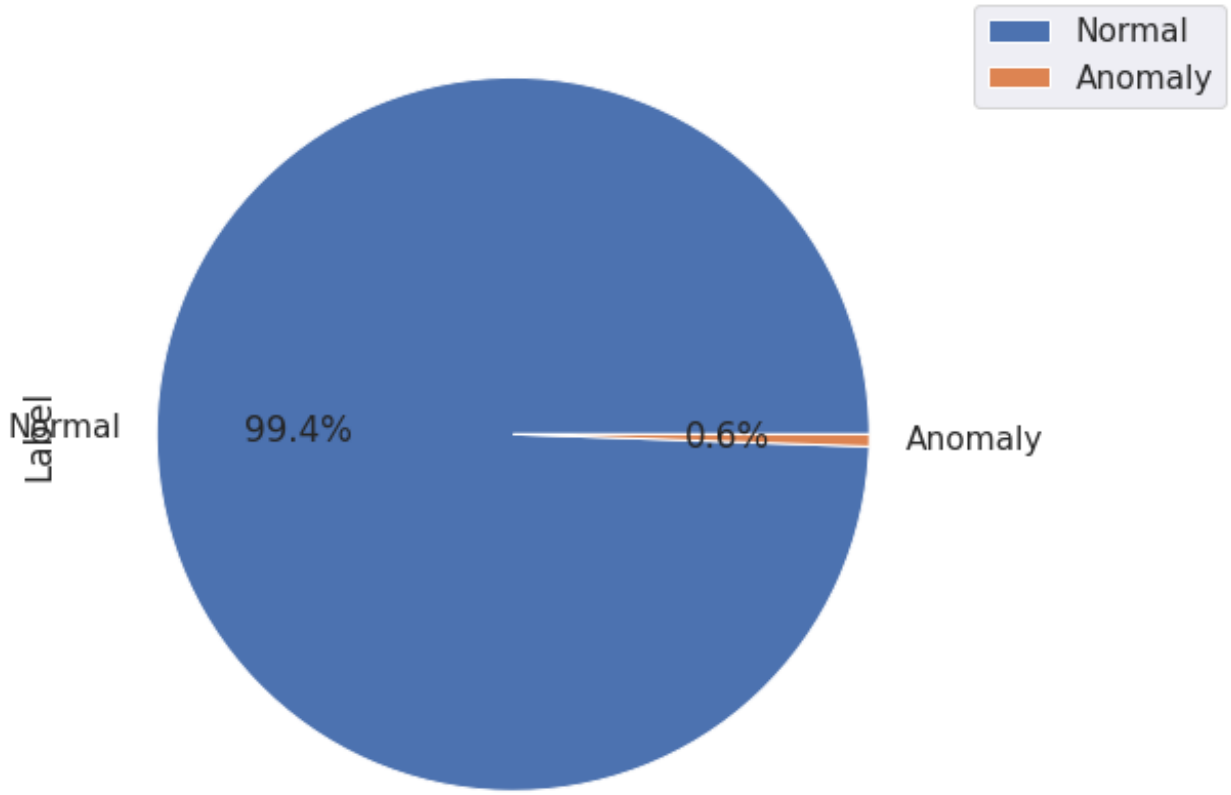
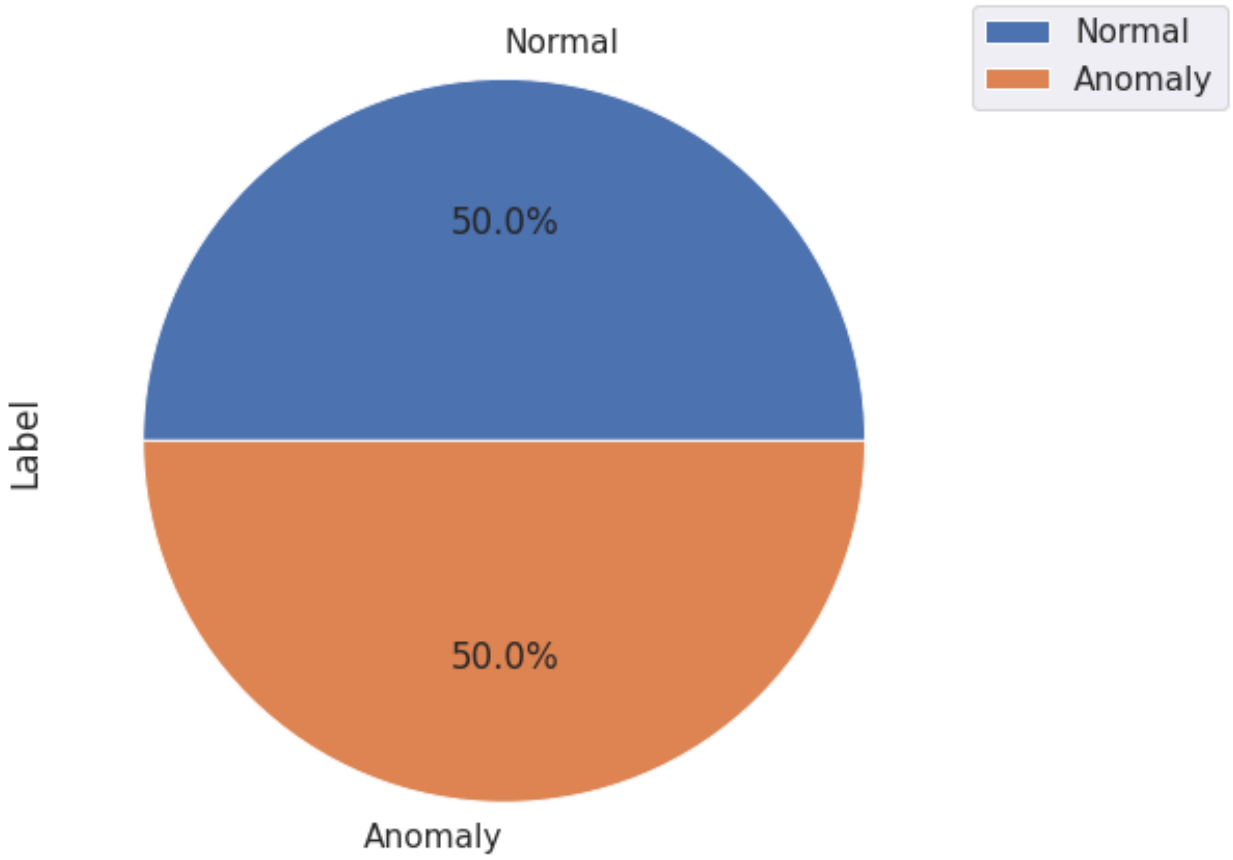
C&C ATTACK

```
Normal     4313776
Anomaly      23981
Name: Label, dtype: int64
4337757
```



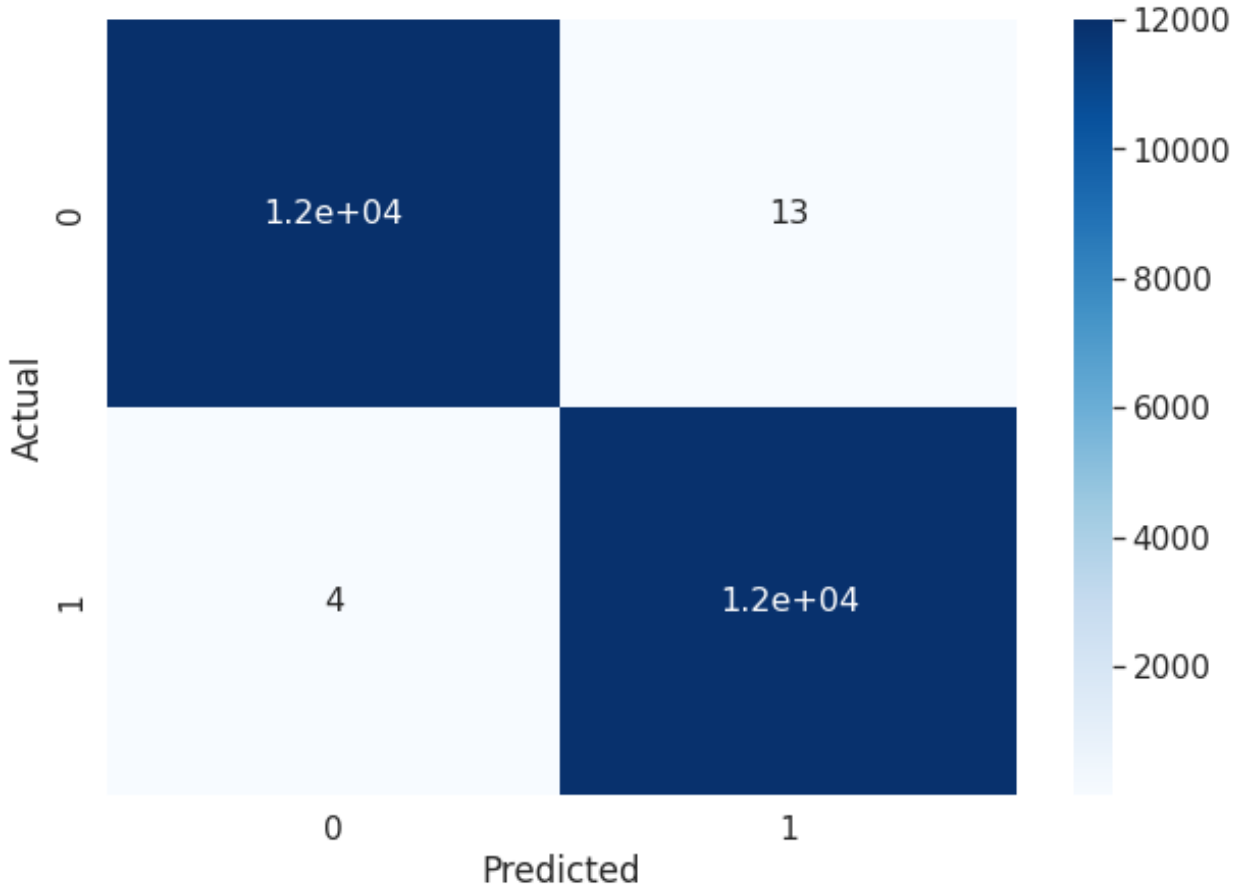

```
Normal     23981
Anomaly    23981
Name: Label, dtype: int64
47962
(47962, 85)
```




```
data.shape  (47962, 80)

nancheck    False

Normal     23981
Anomaly    23981
Name: Label, dtype: int64

1    23981
0    23981
Name: Label, dtype: int64

(23981, 79) (23981, 79) (23981,) (23981,)

Baseline Accuracy Score:  0.5001459488761937
Baseline Precision Score:  0.4989123159303882

Test Accuracy Score:  0.999291105458488
Test Precision Score:  0.9989139515455305
Classification Report:
              precision    recall  f1-score   support

           0       1.00      1.00      1.00     12020
           1       1.00      1.00      1.00     11961

    accuracy                           1.00     23981
```

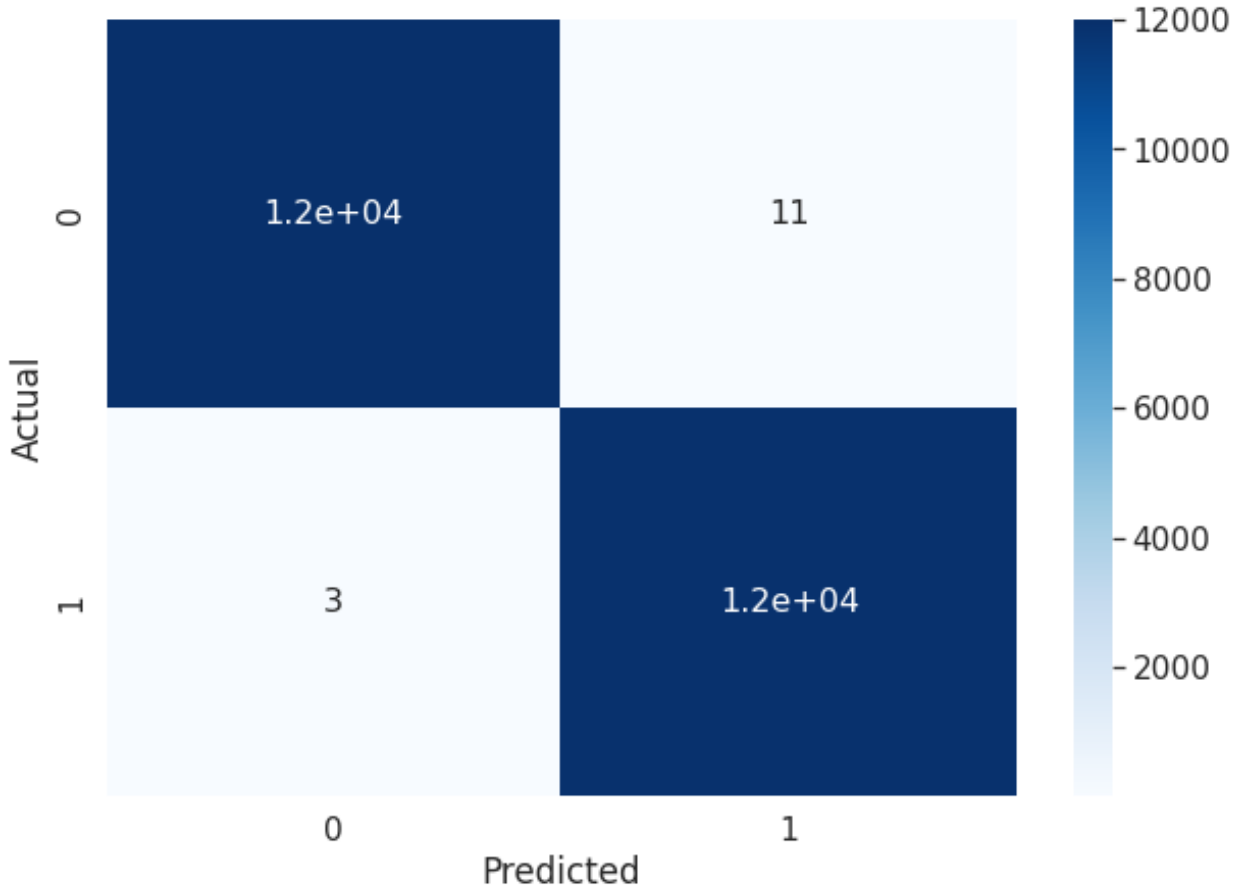
```
   macro avg       1.00      1.00      1.00     23981
weighted avg       1.00      1.00      1.00     23981
```

```
<matplotlib.axes._subplots.AxesSubplot at 0x7f0b9e5acd10>
```



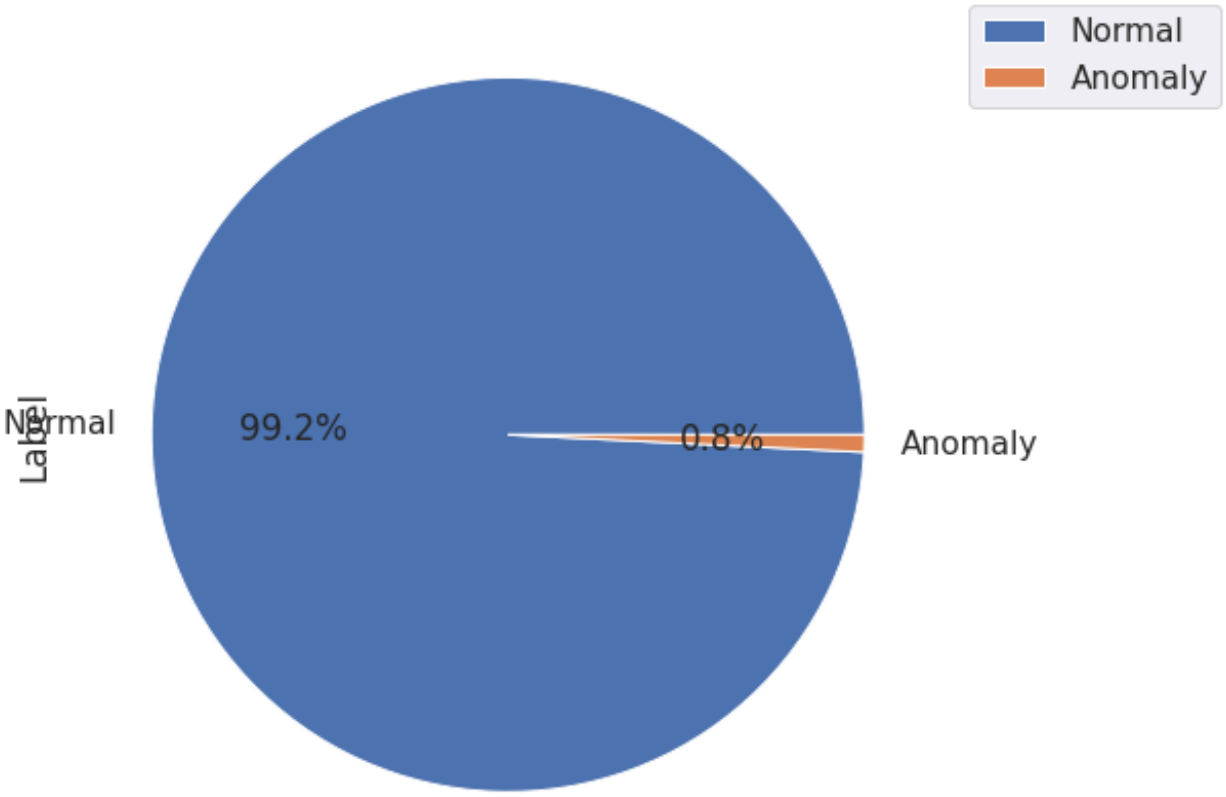

```
Test Accuracy Score:  0.9994162044952254
Test Precision Score:  0.9990809591444565
Classification Report:
              precision    recall  f1-score   support

           0       1.00      1.00      1.00     12020
           1       1.00      1.00      1.00     11961

    accuracy                           1.00     23981
   macro avg       1.00      1.00      1.00     23981
weighted avg       1.00      1.00      1.00     23981
```

```
<matplotlib.axes._subplots.AxesSubplot at 0x7f0b8b21e7d0>
```

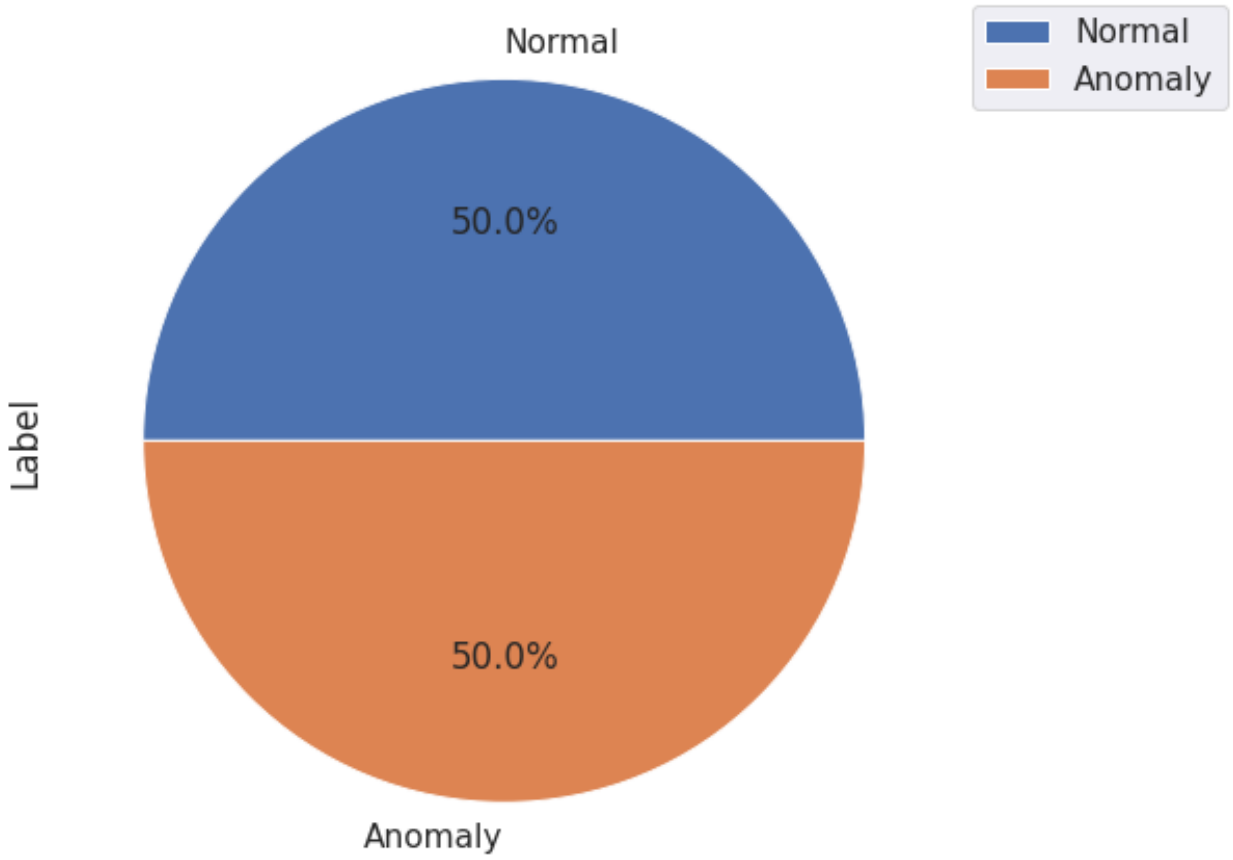


TORRI ATTACK

```
Normal     4313776
Anomaly      33858
Name: Label, dtype: int64
4347634
```



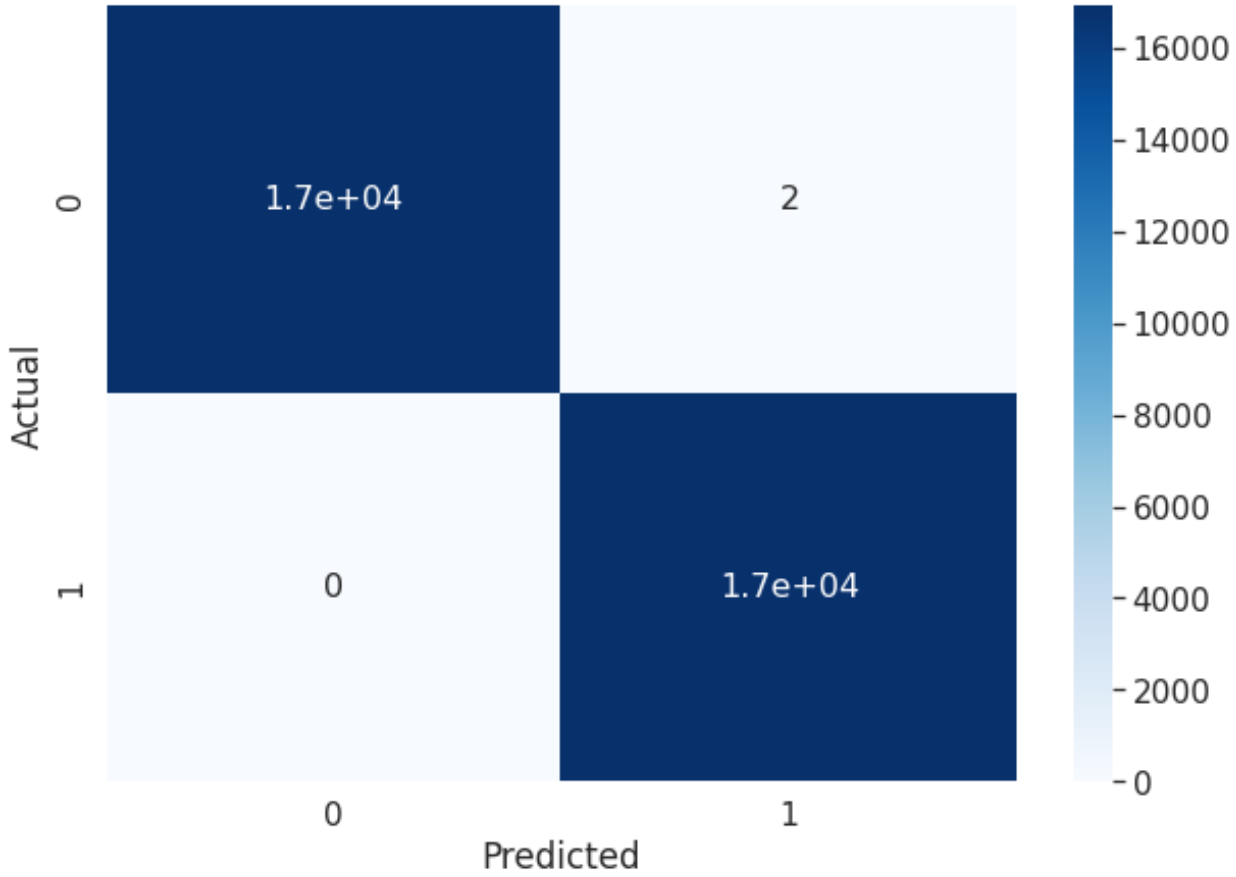

```
Normal     33858
Anomaly    33858
Name: Label, dtype: int64
67716
(67716, 85)
```




```
data.shape  (67716, 80)

nancheck    True

Anomaly    33858
Normal     33857
Name: Label, dtype: int64

1    33858
0    33857
Name: Label, dtype: int64

(33857, 79) (33858, 79) (33857,) (33858,)

Baseline Accuracy Score:  0.5024514147321165
Baseline Precision Score:  0.5030124040165387

Test Accuracy Score:  0.9999409297654912
Test Precision Score:  0.999882005899705
Classification Report:
              precision    recall  f1-score   support

           0       1.00      1.00      1.00     16910
           1       1.00      1.00      1.00     16948

    accuracy                           1.00     33858
```

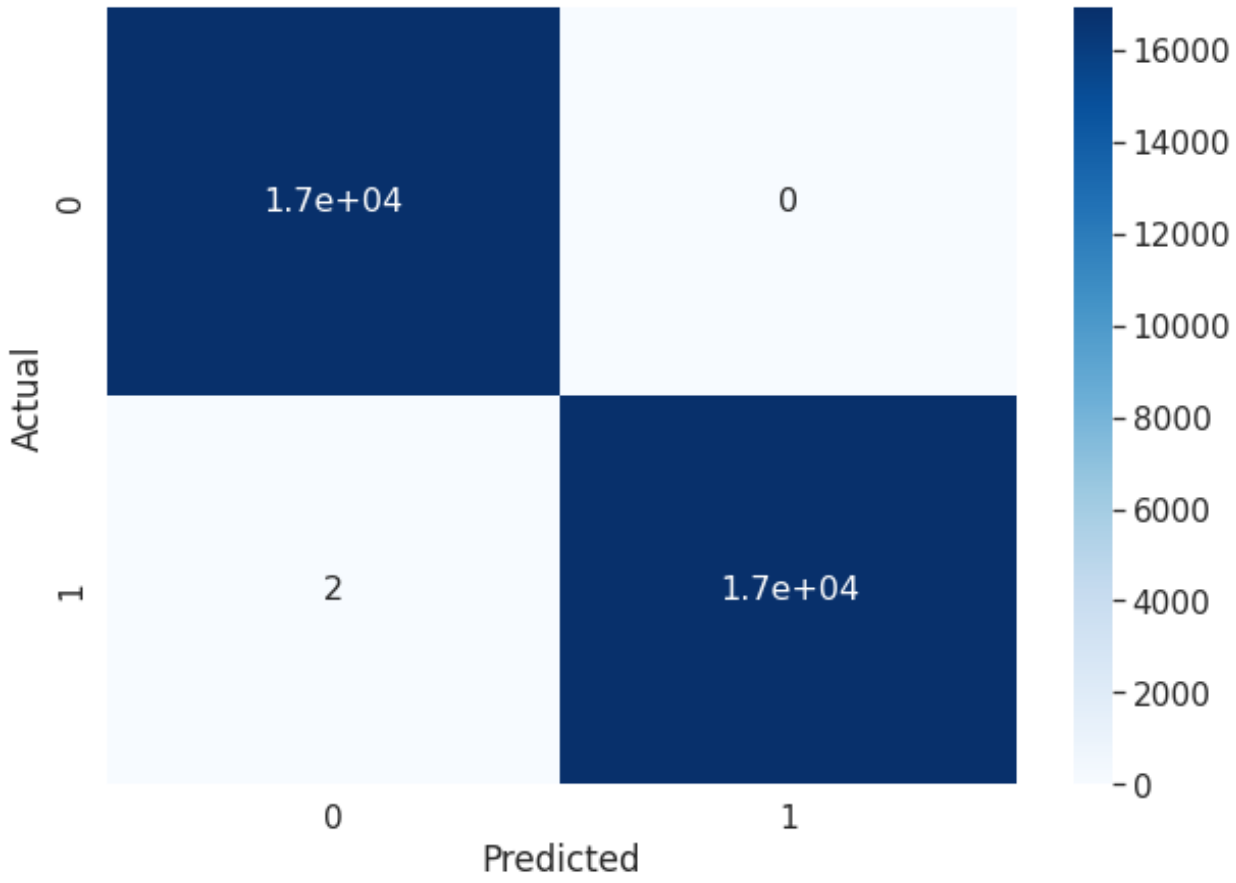
```
   macro avg       1.00      1.00      1.00     33858
weighted avg       1.00      1.00      1.00     33858
```

```
<matplotlib.axes._subplots.AxesSubplot at 0x7f0baf544050>
```




```
Test Accuracy Score:  0.9999409297654912
Test Precision Score:  1.0
Classification Report:
              precision    recall  f1-score   support

           0       1.00      1.00      1.00     16910
           1       1.00      1.00      1.00     16948

    accuracy                           1.00     33858
   macro avg       1.00      1.00      1.00     33858
weighted avg       1.00      1.00      1.00     33858
```

```
<matplotlib.axes._subplots.AxesSubplot at 0x7f0b8a300350>
```


1.7e+04
0
2
1.7e+04
0
1
Actual
Predicted
16000
14000
12000
10000
8000
6000
4000
2000
0