cuda
loaded and preprocessed data
split data
train size: 5985 samples
validation size: 1995 samples
test size: 1995 samples
train class distribution: {0: 1875, 1: 4110}
validation class distribution: {0: 625, 1: 1370}
test class distribution: {0: 625, 1: 1370}
epoch 1, val loss: 0.4735, val acc: 0.8165
epoch 2, val loss: 0.4256, val acc: 0.8206
epoch 3, val loss: 0.5126, val acc: 0.7584
epoch 4, val loss: 0.3192, val acc: 0.8832
epoch 5, val loss: 0.2804, val acc: 0.8992
epoch 6, val loss: 0.2144, val acc: 0.9218
epoch 7, val loss: 0.2153, val acc: 0.9213
epoch 8, val loss: 0.1110, val acc: 0.9604
epoch 9, val loss: 0.0891, val acc: 0.9719
epoch 10, val loss: 0.0773, val acc: 0.9734
epoch 11, val loss: 0.0495, val acc: 0.9845
epoch 12, val loss: 0.0474, val acc: 0.9810
epoch 13, val loss: 0.0874, val acc: 0.9709
epoch 14, val loss: 0.0403, val acc: 0.9845
epoch 15, val loss: 0.0338, val acc: 0.9880
epoch 16, val loss: 0.0232, val acc: 0.9940
epoch 17, val loss: 0.0187, val acc: 0.9940
epoch 18, val loss: 0.0234, val acc: 0.9960
epoch 19, val loss: 0.0216, val acc: 0.9965
epoch 20, val loss: 0.0365, val acc: 0.9930
epoch 21, val loss: 0.0381, val acc: 0.9895
epoch 22, val loss: 0.0210, val acc: 0.9930
early stopping triggered.
classification report:

	precision	recall	f1-score	support
0	0.99	0.99	0.99	625
1	0.99	0.99	0.99	1370
accuracy			0.99	1995
macro avg	0.99	0.99	0.99	1995

weighted avg 0.99 0.99 0.99 1995

final test accuracy: 0.9925