saved_models\cnn1d_normalized_after_relative_w1000ms.pth Training Report

Total Training Time: 42.15 seconds
Total Inference Time: 0.02 seconds

Train time per epoch: 1.05 seconds

Test Loss: 0.1264
Test Accuracy: 98.66%

Model Size: 1.09 MB

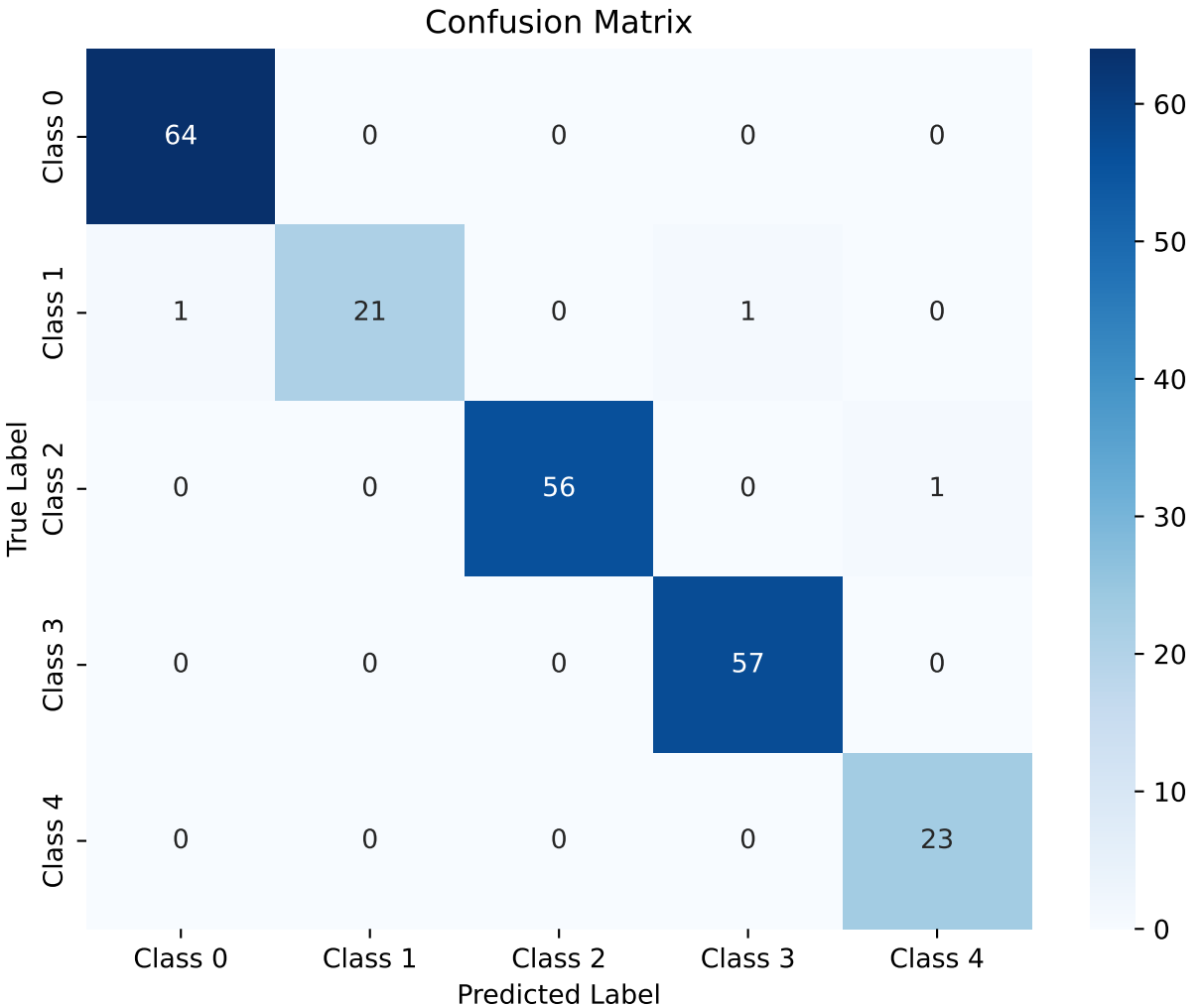
Configuration and Hyperparameters

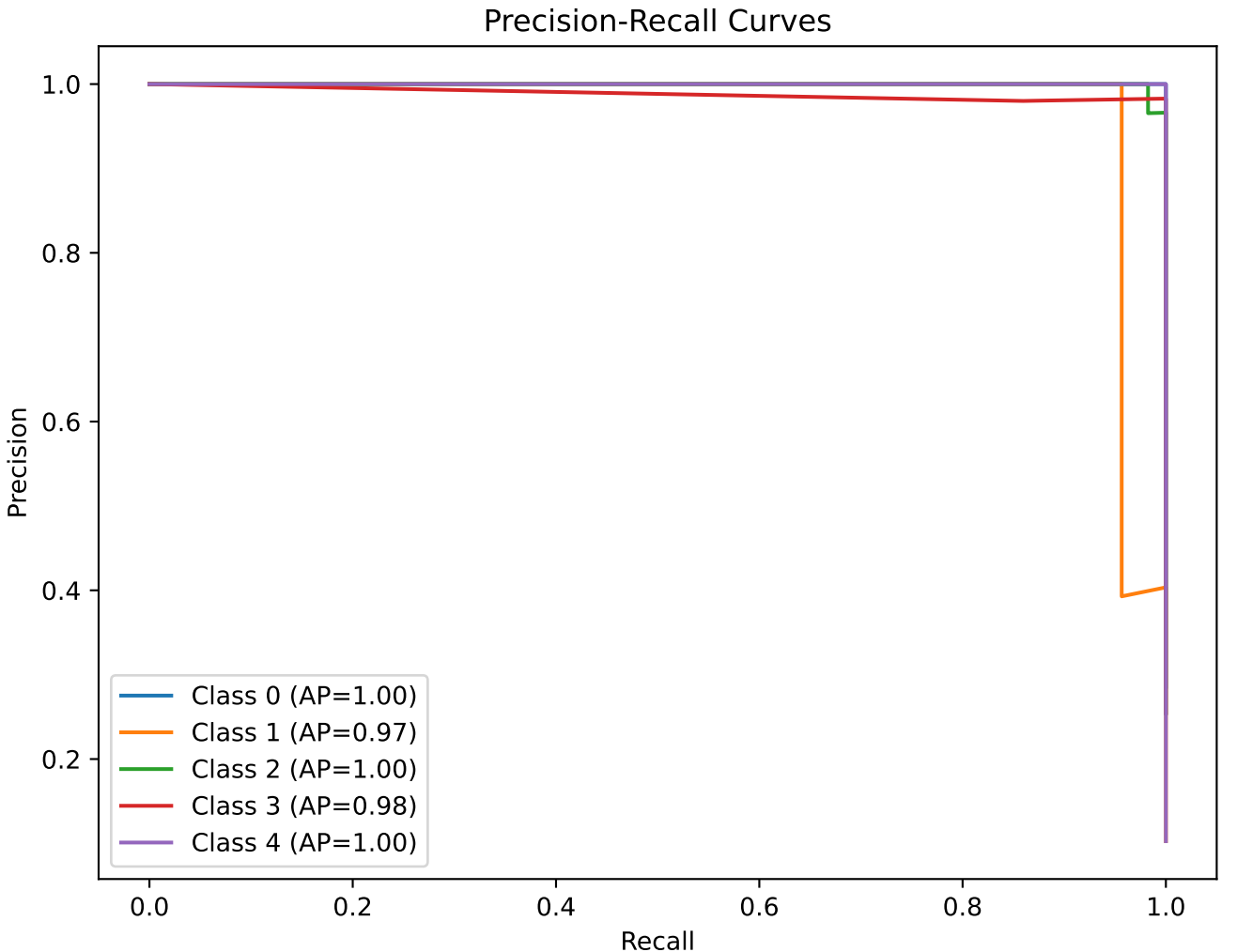
Data Paths:
  Data Directory: data\2024-11-24T10_13_28_d300sec_w1000ms
  Training Data File: data\2024-11-24T10_13_28_d300sec_w1000ms\training.csv
  Test Data File: data\2024-11-24T10_13_28_d300sec_w1000ms\testing.csv
  Model Save Path: saved_models\cnn1d_normalized_after_relative_w1000ms.pth
  PDF Report Path: run_reports\cnn1d_normalized_rafter_elative_w1000ms.pdf

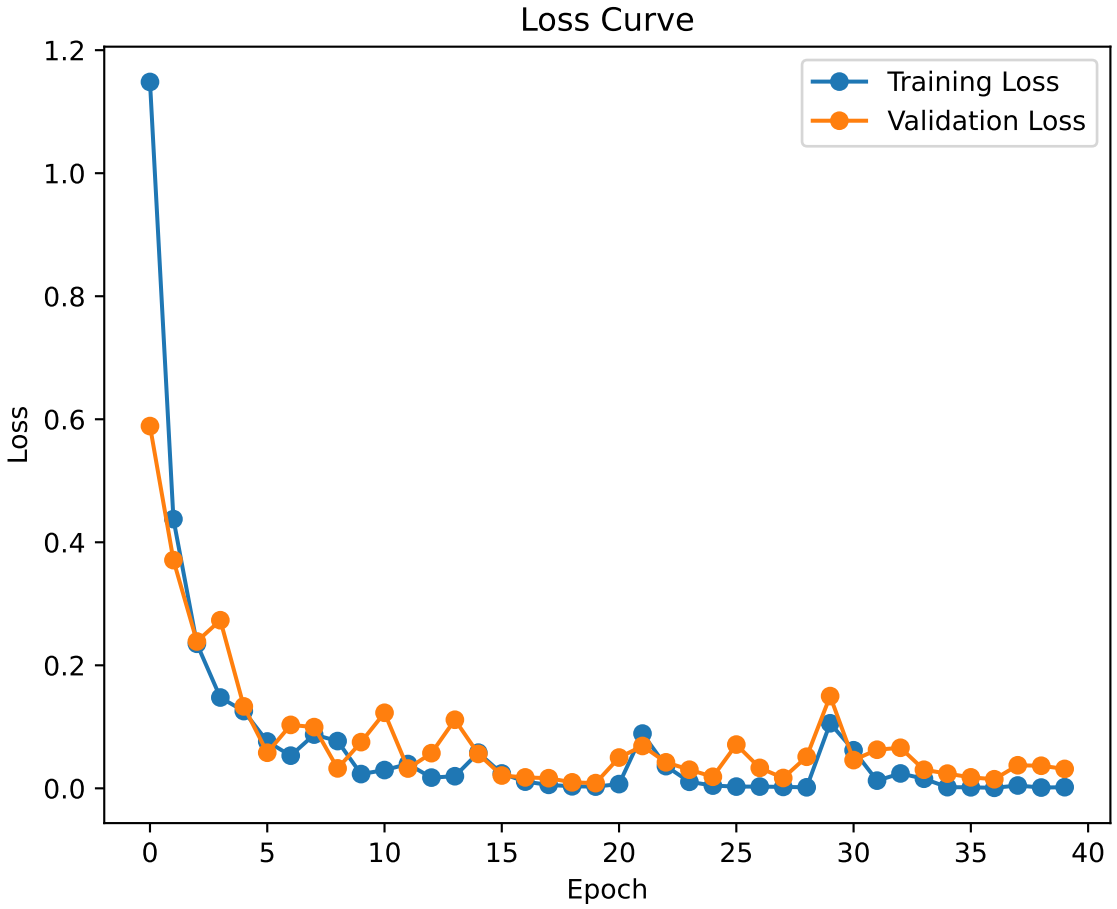
Basic Config:
  num_features: 72
  window_size: 60
  num_classes: 5
  batch_size: 32
  num_epochs: 40
  learning_rate: 0.001
  validation_split: 0.2

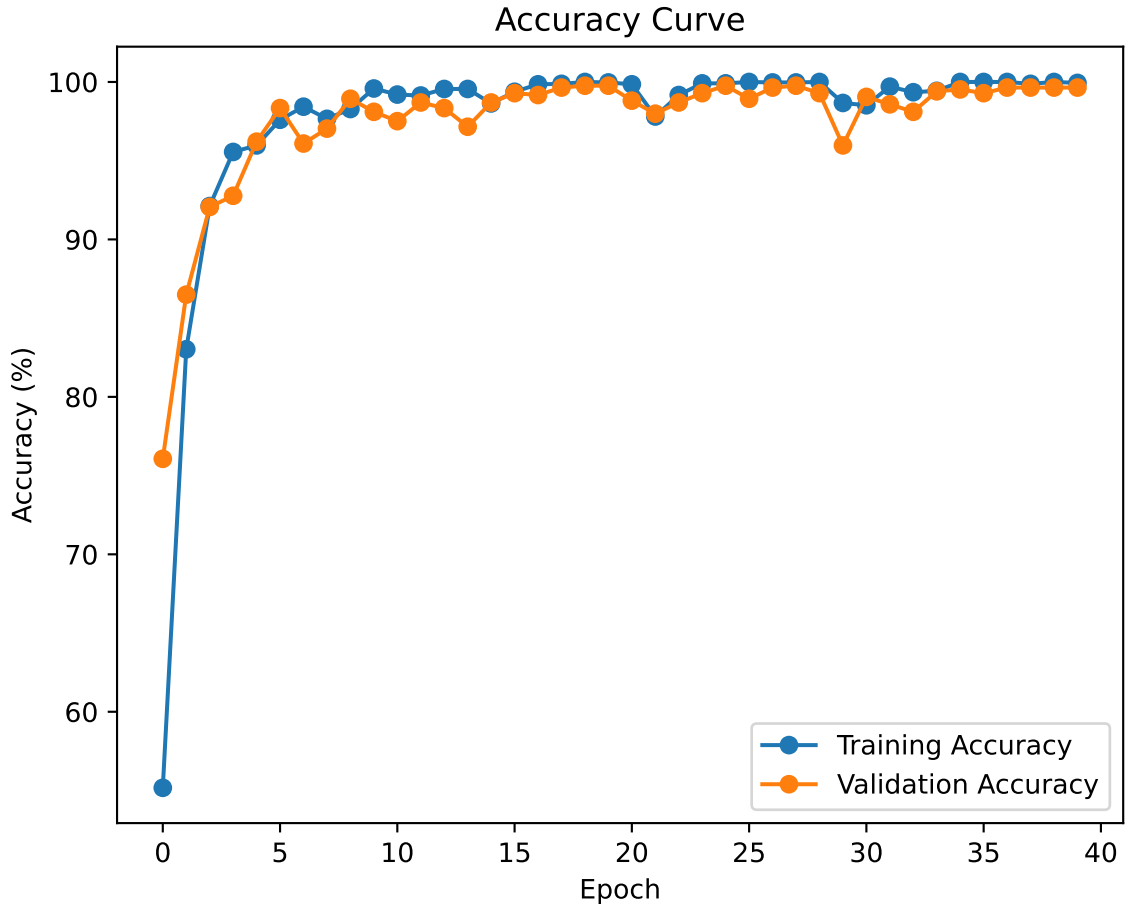
Classification Report

	precision	recall	f1-score	support
Class 0	0.98	1.00	0.99	64
Class 1	1.00	0.91	0.95	23
Class 2	1.00	0.98	0.99	57
Class 3	0.98	1.00	0.99	57
Class 4	0.96	1.00	0.98	23
accuracy			0.99	224
macro avg	0.99	0.98	0.98	224
weighted avg	0.99	0.99	0.99	224


Confusion Matrix
True Label
Predicted Label
Class 0
Class 1
Class 2
Class 3
Class 4
64 0 0 0 0
1 21 0 1 0
0 0 56 0 1
0 0 0 57 0
0 0 0 0 23
60
50
40
30
20
10
0


Precision-Recall Curves
Precision
Recall
1.0
0.8
0.6
0.4
0.2
0.0
0.2
0.4
0.6
0.8
1.0
Class 0 (AP=1.00)
Class 1 (AP=0.97)
Class 2 (AP=1.00)
Class 3 (AP=0.98)
Class 4 (AP=1.00)


Loss Curve
Training Loss
Validation Loss
Loss
Epoch
1.2
1.0
0.8
0.6
0.4
0.2
0.0
0
5
10
15
20
25
30
35
40


Accuracy Curve
Training Accuracy
Validation Accuracy
Accuracy (%)
Epoch
100
90
80
70
60
0
5
10
15
20
25
30
35
40