

Transformer Model Training Report

Total Training Time: 142.93 seconds

Total Inference Time: 0.24 seconds

Test Loss: 0.3878

Test Accuracy: 87.50%

Model Size: 7.02 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\transformer_model_normalized_relative_w1000ms.pth
PDF Report Path: run_reports\transformer_model_normalized_relative_w1000ms.pdf

Basic Config:

num_features: 72
window_size: 60
num_classes: 5
batch_size: 32
num_epochs: 10
learning_rate: 0.001
validation_split: 0.2

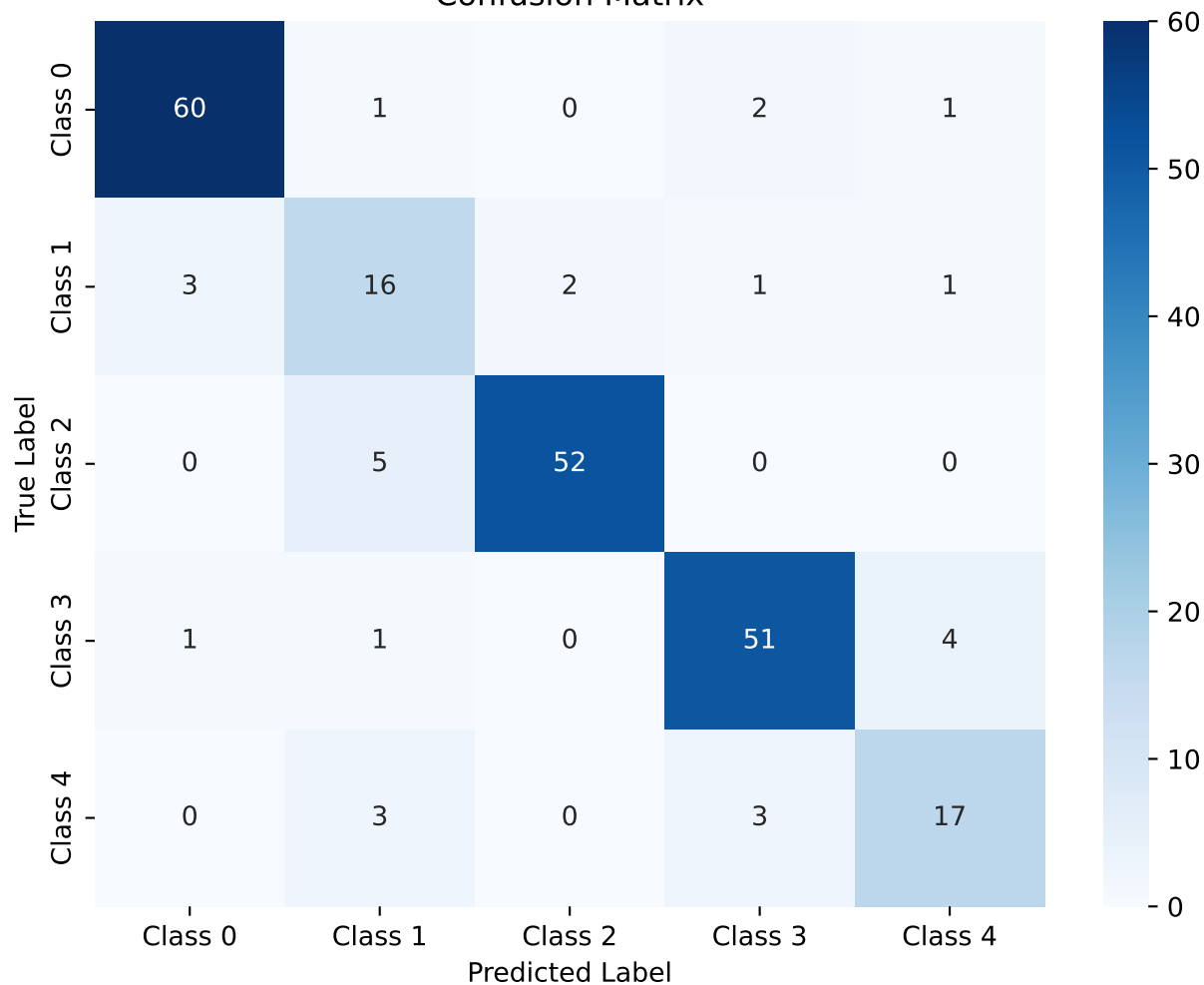
Transformer Hyperparameters:

d_model: 128
num_heads: 4
num_layers: 2
dropout: 0.1

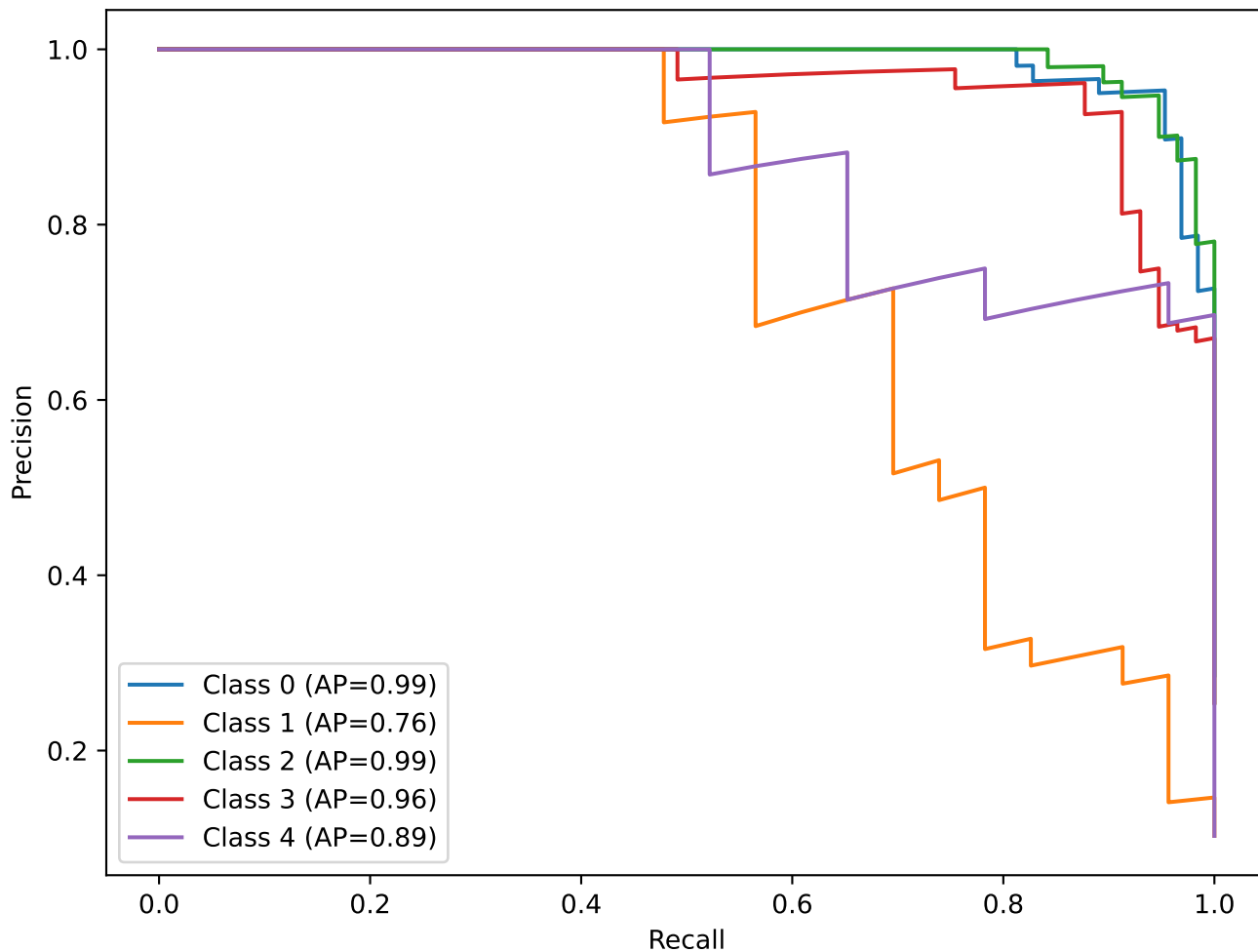
Classification Report

	precision	recall	f1-score	support
Class 0	0.94	0.94	0.94	64
Class 1	0.62	0.70	0.65	23
Class 2	0.96	0.91	0.94	57
Class 3	0.89	0.89	0.89	57
Class 4	0.74	0.74	0.74	23
accuracy			0.88	224
macro avg	0.83	0.84	0.83	224
weighted avg	0.88	0.88	0.88	224

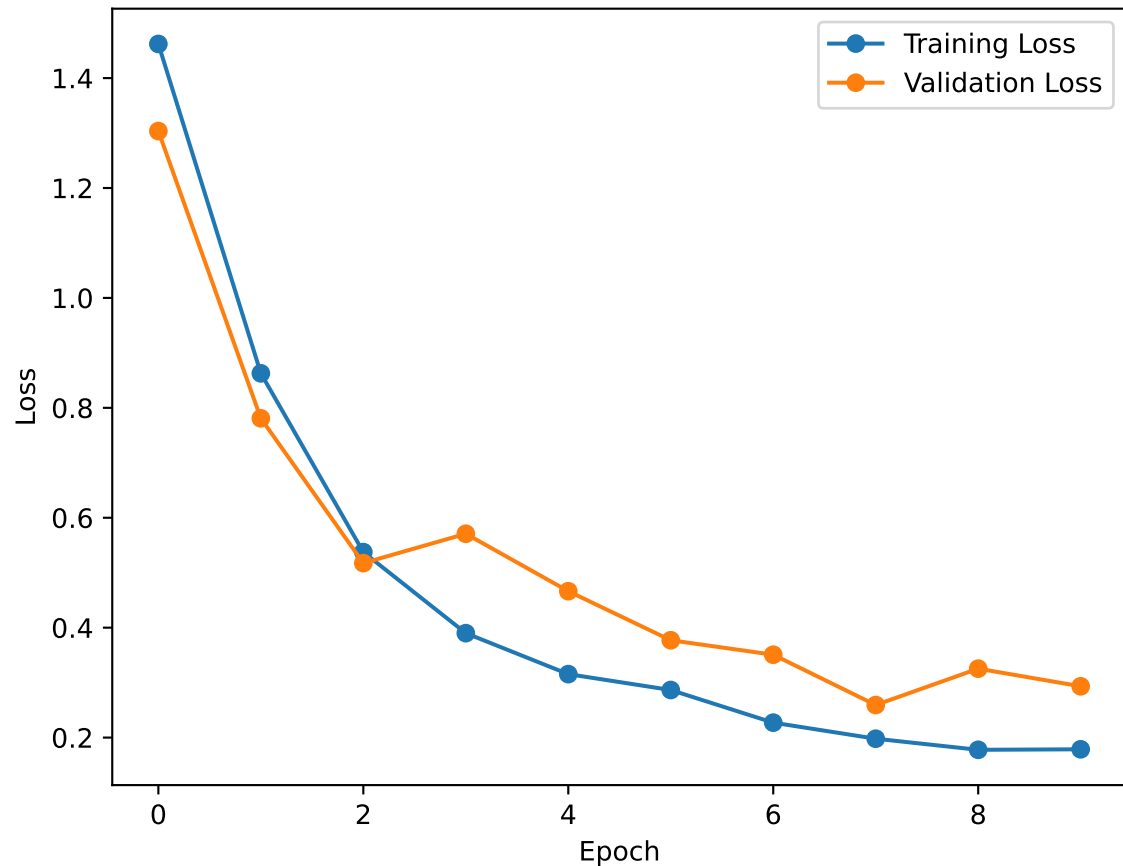
Confusion Matrix



Precision-Recall Curves



Loss Curve



Accuracy Curve

