

CNN2D Model Training Report

Total Training Time: 582.50 seconds

Total Inference Time: 0.93 seconds

Train time per epoch: 19.42 seconds

Test Loss: 0.3812

Test Accuracy: 92.86%

Model Size: 17.17 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\cnn2d_model_normalized_relative_w1000ms.pth
PDF Report Path: run_reports\cnn2d_model_normalized_relative_w1000ms.pdf

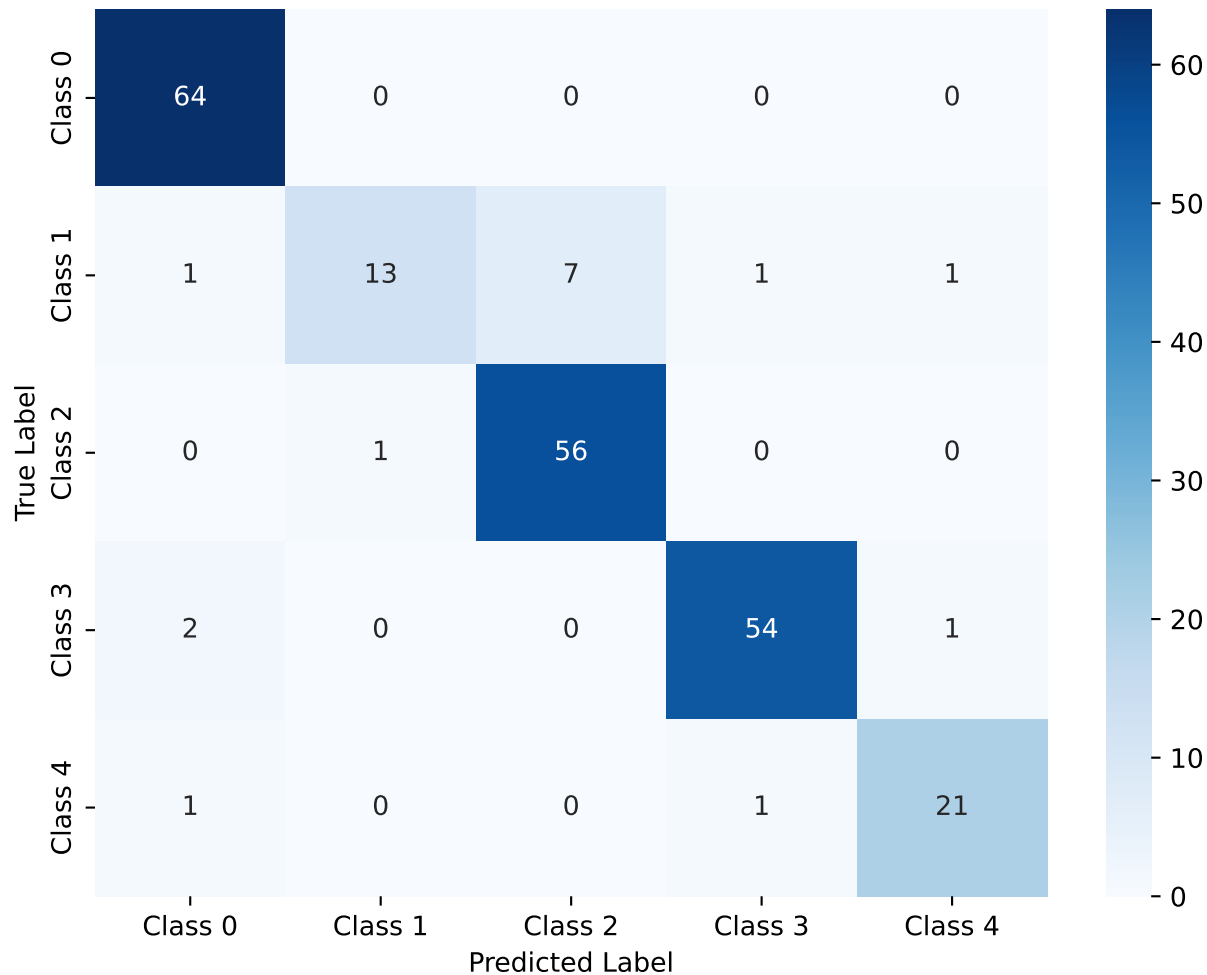
Basic Config:

num_features: 72
window_size: 60
num_classes: 5
batch_size: 32
num_epochs: 30
learning_rate: 0.001
validation_split: 0.2

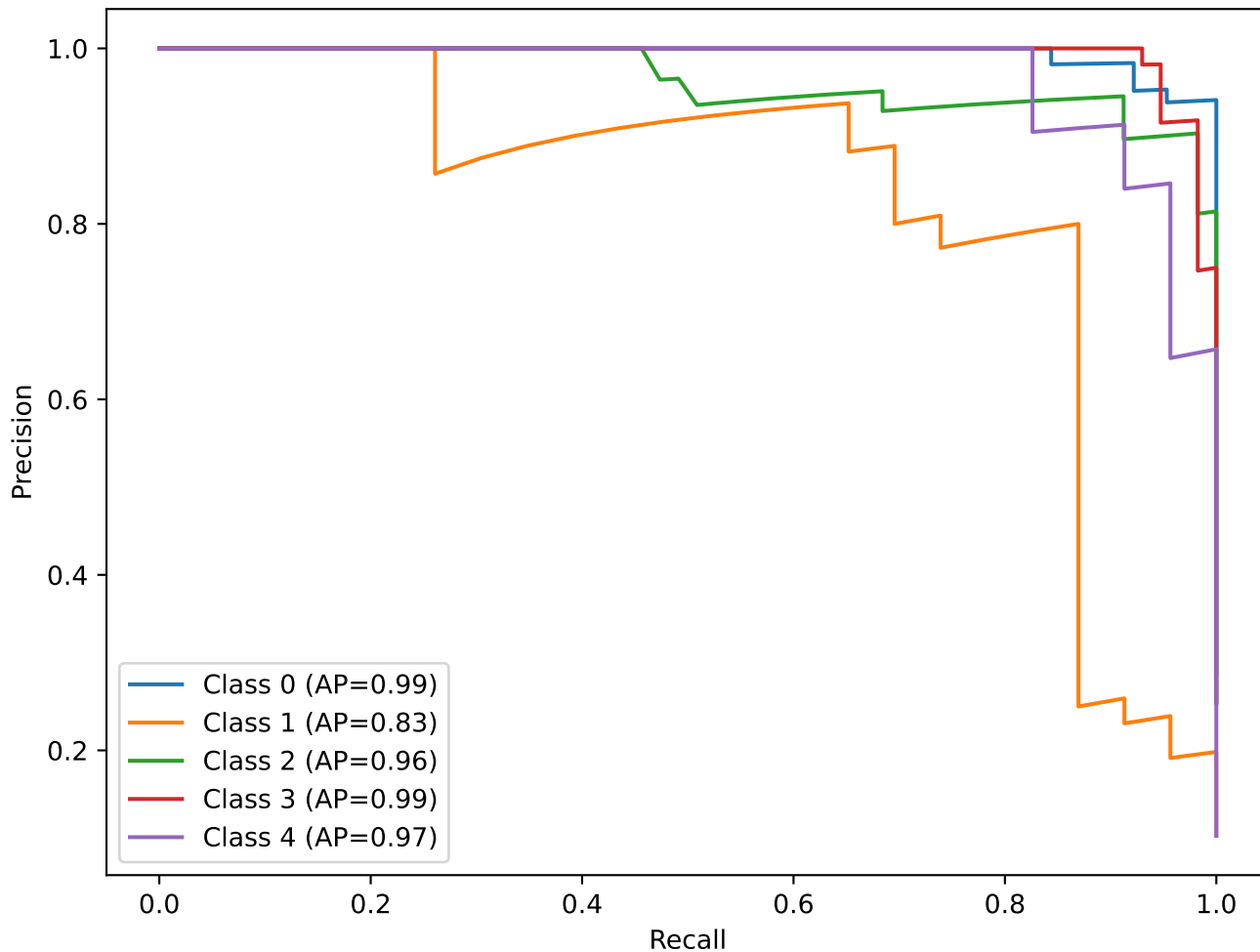
Classification Report

| | precision | recall | f1-score | support |
|--------------|-----------|--------|----------|---------|
| Class 0 | 0.94 | 1.00 | 0.97 | 64 |
| Class 1 | 0.93 | 0.57 | 0.70 | 23 |
| Class 2 | 0.89 | 0.98 | 0.93 | 57 |
| Class 3 | 0.96 | 0.95 | 0.96 | 57 |
| Class 4 | 0.91 | 0.91 | 0.91 | 23 |
| accuracy | | | 0.93 | 224 |
| macro avg | 0.93 | 0.88 | 0.89 | 224 |
| weighted avg | 0.93 | 0.93 | 0.92 | 224 |

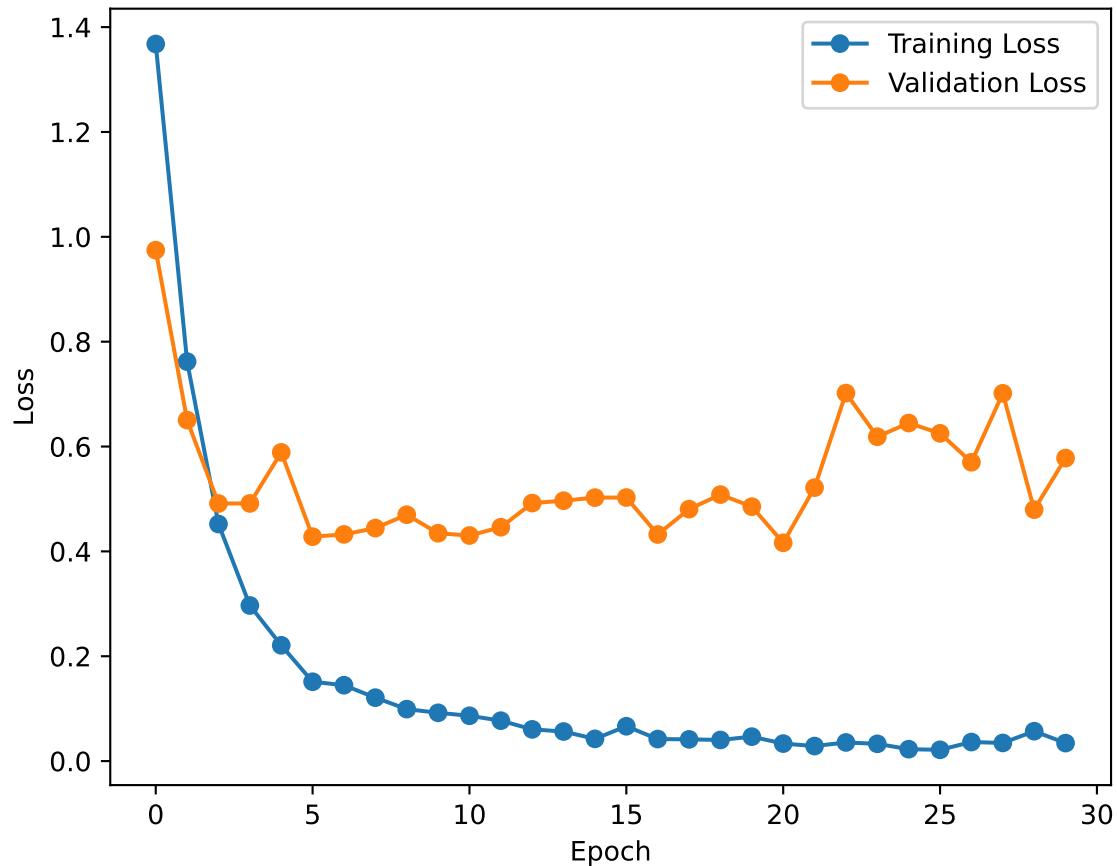
Confusion Matrix



Precision-Recall Curves



Loss Curve



Accuracy Curve

