Training Report: PositionalFastKAN 1c5a48ae-76d6-4bac-a42d-ac5a292f6856

Best Epoch Performance Metrics

```
Summary of Metrics:
- Samples: 1678
- Loss: 1.027
- Accuracy: 76.383%
- Precision (PPV): 79.486%
- Recall (Sensitivity): 76.383%
- Specificity (TNR): 99.296%
- F1-Score: 76.239%
- ROC AUC: 94.943%
- PR AUC: 77.083%
- Performance: 80.906%
- Weighted: True
```
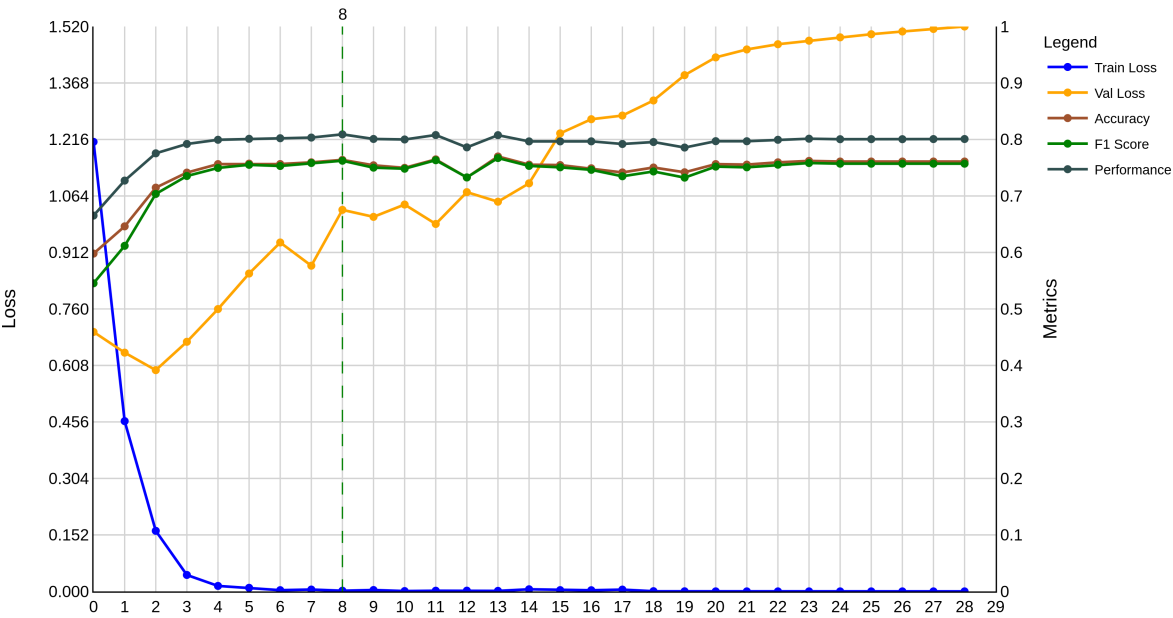
Model Configuration

```
- in_channels: 1024
- in_seq_len: 1023
- out_channels: 10
- reduced_seq_len: 10
- reduced_channels: 512
- hidden_layers: HiddenLayers(kind=Type.RELATIVE, value=(0.14, 1))
- kernel_size: 3
- weights_scalar: 2.0
- grid_diff: 2.0
- num_grids: 6
```
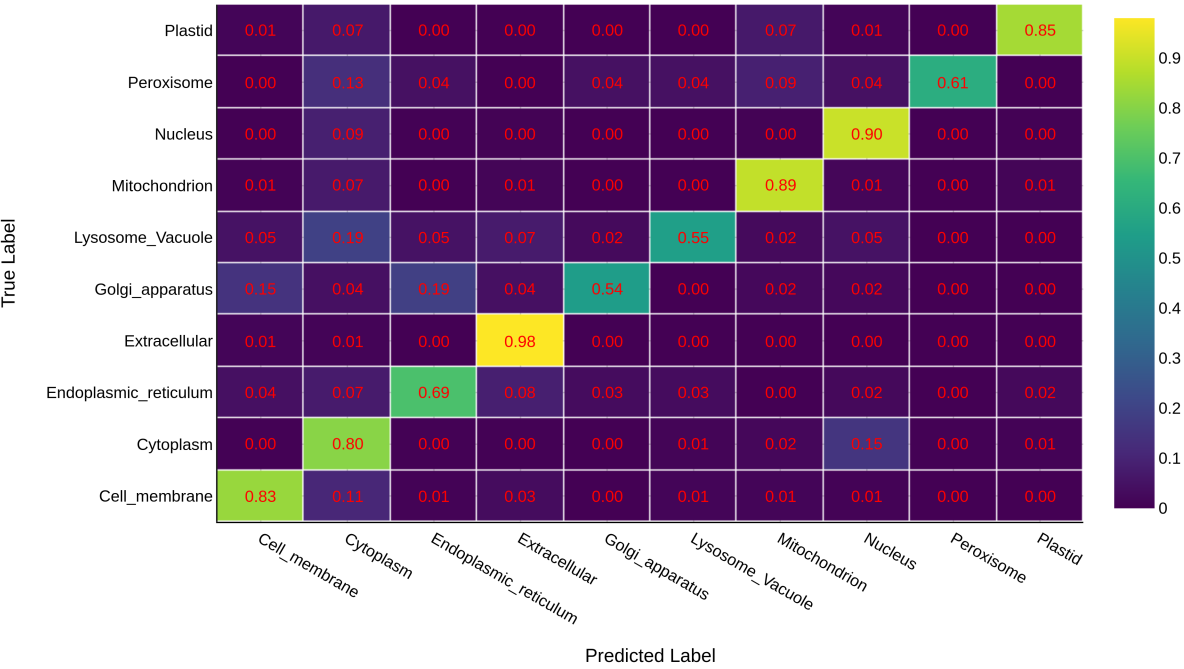
Memory Size:

```
104.128 MB
```
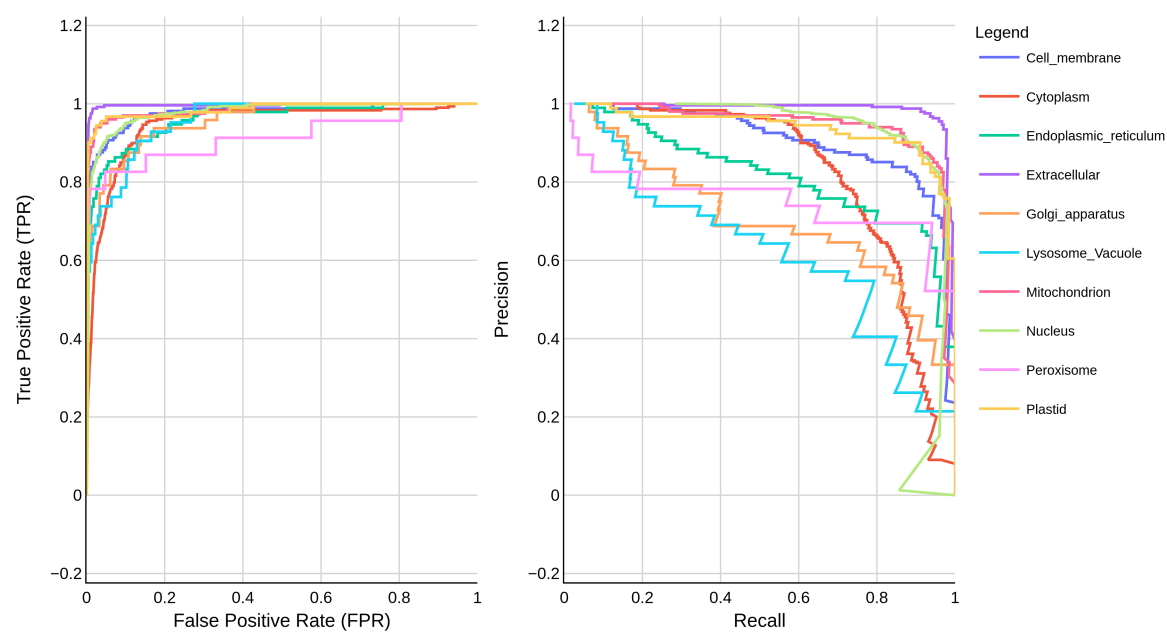
Figures & Visualizations

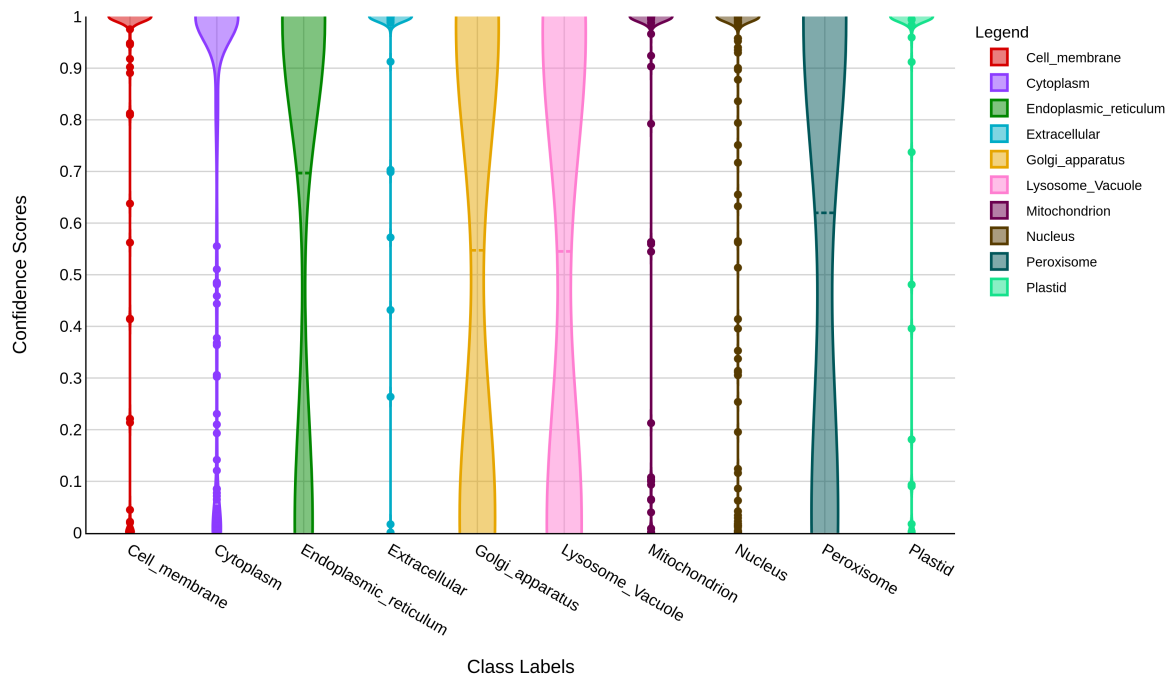TrainingLoss & TrainingPerformance (epoch: 28) | PositionalFastKAN

Confusion Matrix (PositionalFastKAN)

MultiFigure: ROCCurve | PRCurve

Prediction Confidence Distribution (PositionalFastKAN)

Final Evaluation Report: PositionalFastKAN 1c5a48ae-76d6-4bac-a42d-ac5a292f6856

Test Set Performance

```
Summary of Metrics:
- Samples: 490
- Loss: 3.406
- Accuracy: 61.224%
- Precision (PPV): 62.496%
- Recall (Sensitivity): 53.628%
- Specificity (TNR): 95.164%
- F1-Score: 53.497%
- ROC AUC: 86.456%
- PR AUC: 54.756%
- Performance: 63.459%
- Weighted: False
```
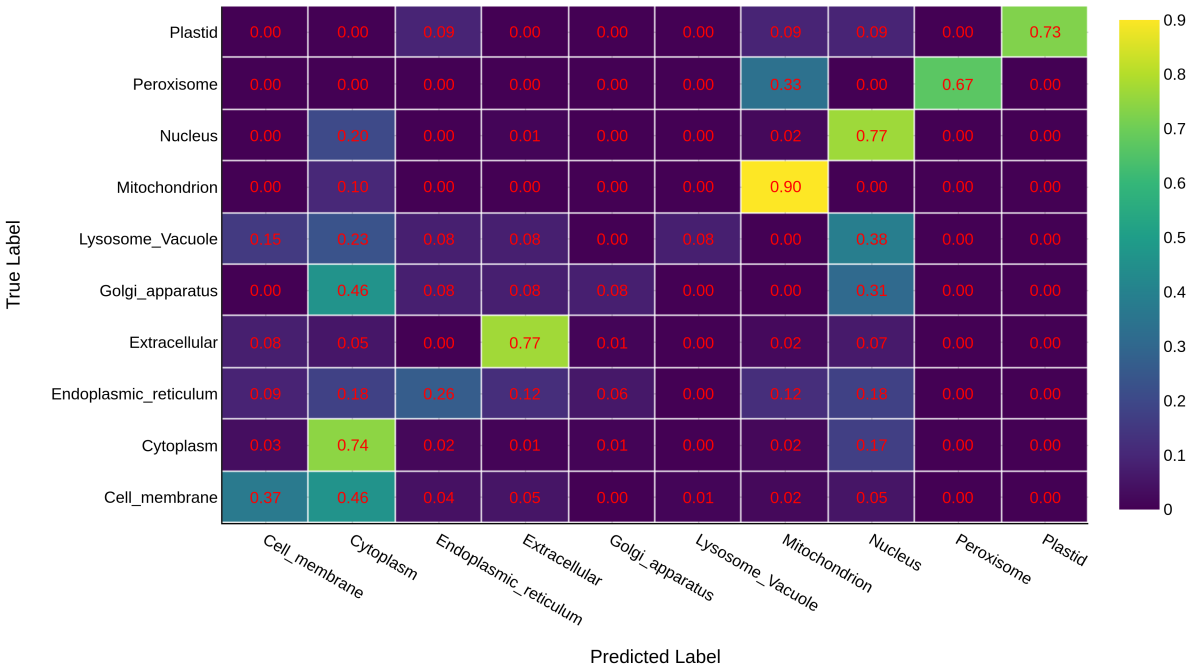
Test Set Performance (Sampled Statistics)
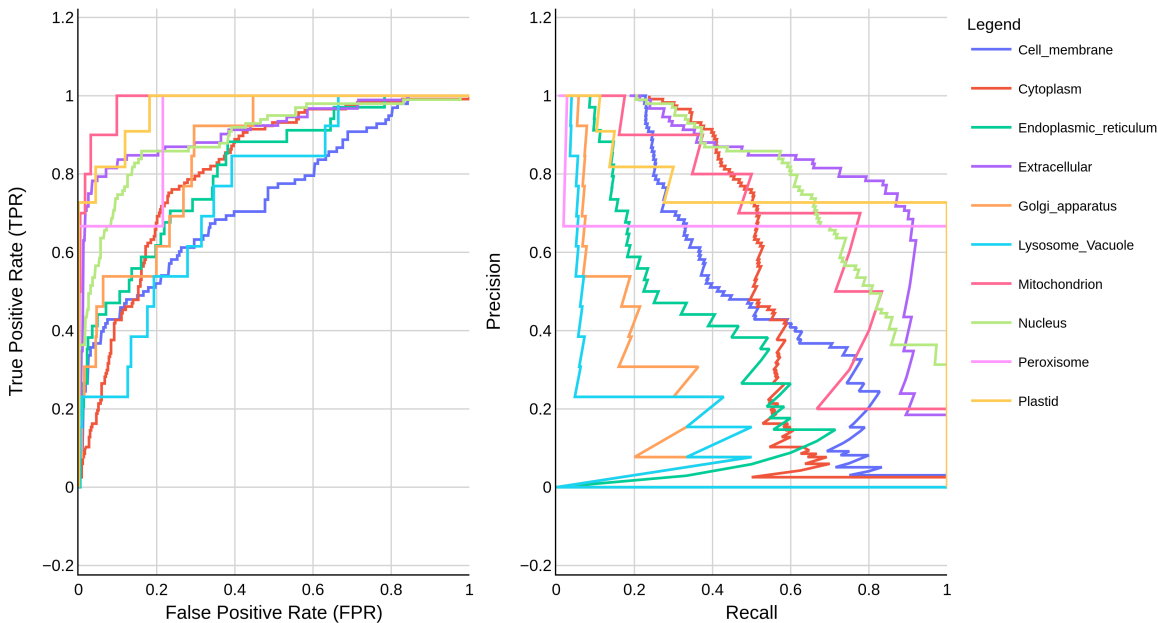
```
MetricsSampled Summary:
mean metric 95% confidence interval
Accuracy: 61.13 [61.02 - 61.24]
Sensitivity: 53.25 [53.04 - 53.46]
Specificity: 95.15 [95.14 - 95.16]
F1-Score: 52.14 [51.92 - 52.35]
```

Figures & Visualizations

Confusion Matrix (PositionalFastKAN)

MultiFigure: ROCCurve | PRCurve

Prediction Confidence Distribution (PositionalFastKAN)

Class Labels

Confidence Scores