

# Training Report:

## LstmAttentionReductionHybridFastKAN

### dcac07f3-37b2-4c8c-9268-c91d595b4e56

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#### Best Epoch Performance Metrics

```
Summary of Metrics:  
- Samples: 1678  
- Loss: 1.303  
- Accuracy: 80.191%  
- Precision (PPV): 82.216%  
- Recall (Sensitivity): 80.191%  
- Specificity (TNR): 99.047%  
- F1-Score: 80.360%  
- ROC AUC: 94.108%  
- PR AUC: 74.394%  
- Performance: 82.558%  
- Weighted: True
```

#### Model Configuration

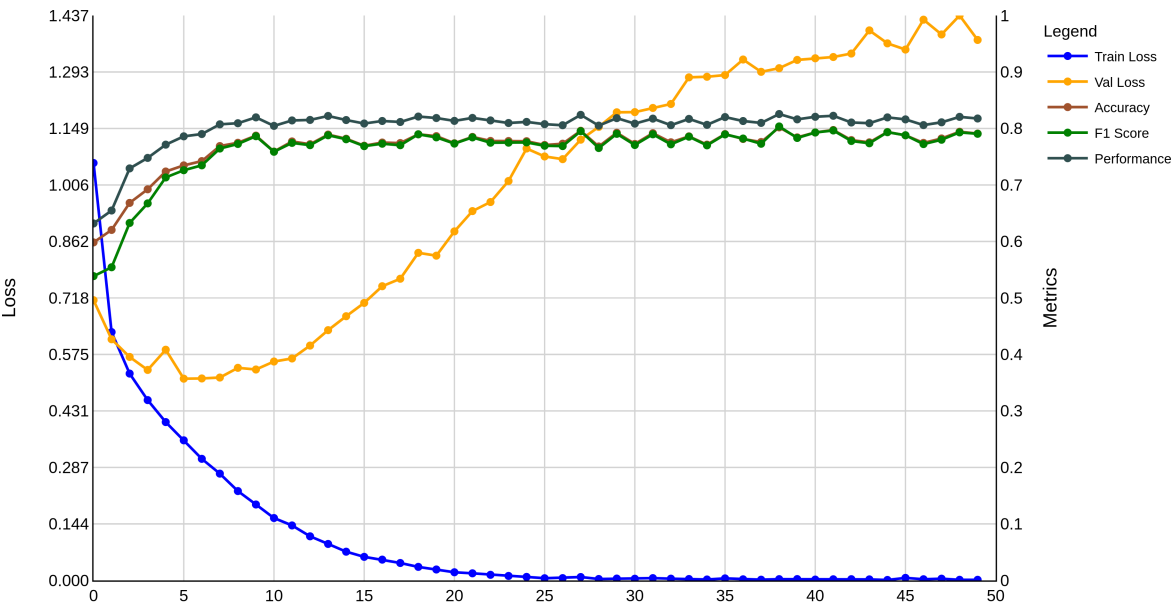
```
- in_channels: 1024  
- in_seq_len: 1023  
- out_channels: 10  
- reduced_seq_len: 10  
- lstm_hidden_size: 128  
- lstm_num_layers: 2  
- dropout_rate: 0.25  
- hidden_layers: HiddenLayers(kind=Type.RELATIVE, value=(0.04, 1))  
- num_heads: 8  
- grid_diff: 1.0  
- num_grids: 8
```

#### Memory Size:

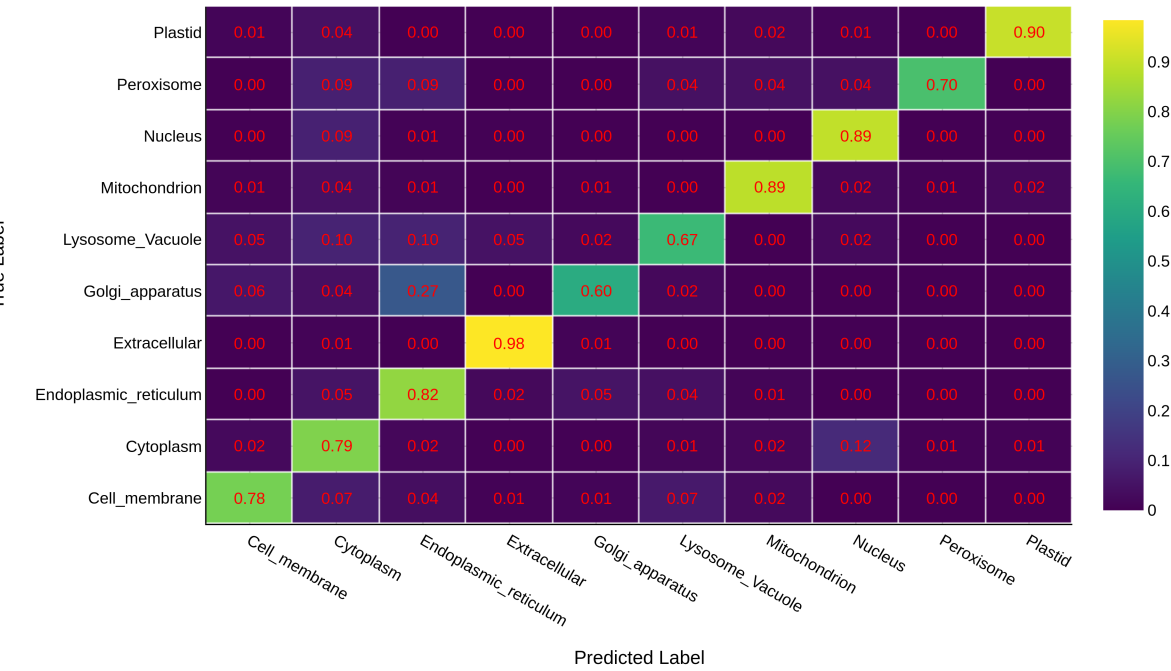
```
14.053 MB
```

# Figures & Visualizations

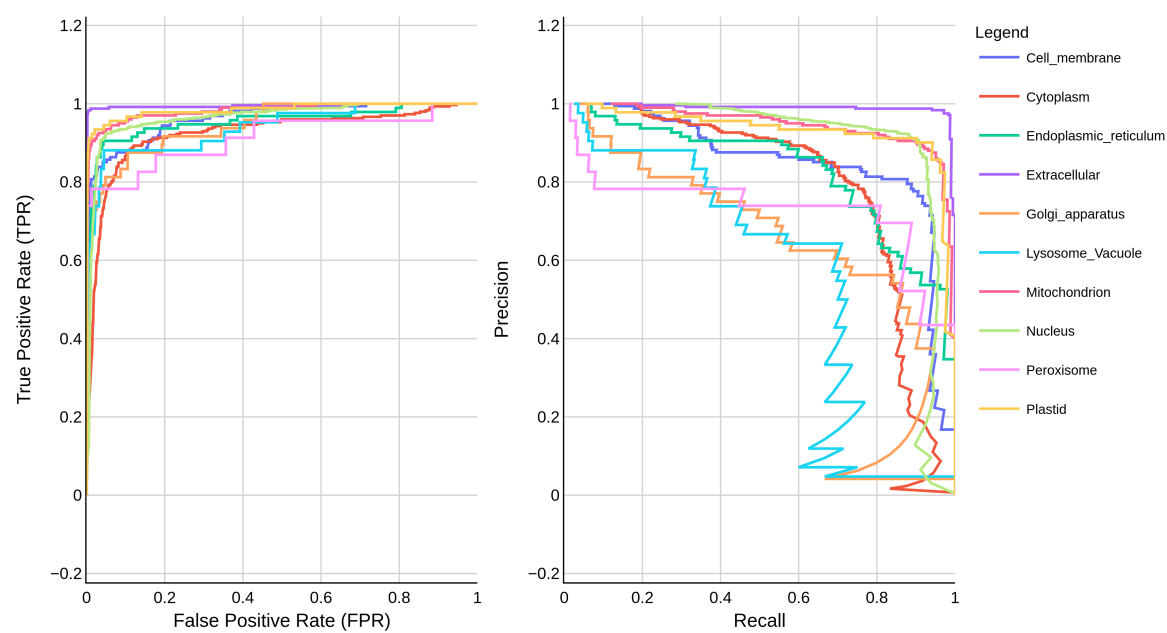
TrainingLoss & TrainingPerformance (epoch: 49) | LstmAttentionReductionHybridFastKAN



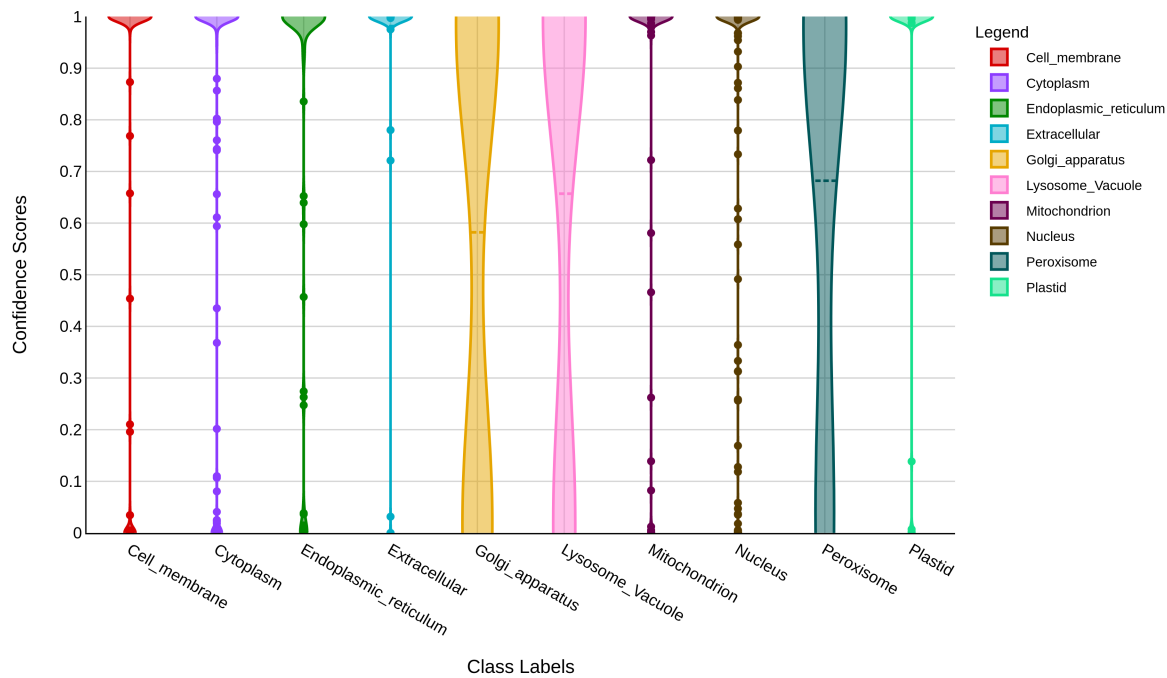
Confusion Matrix (LstmAttentionReductionHybridFastKAN)



MultiFigure: ROCCurve | PRCurve



Prediction Confidence Distribution (LstmAttentionReductionHybridFastKAN)



# Final Evaluation Report:

## LstmAttentionReductionHybridFastKAN

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### Test Set Performance

Summary of Metrics:

- Samples: 490
- Loss: 3.683
- Accuracy: 61.837%
- Precision (PPV): 55.735%
- Recall (Sensitivity): 57.704%
- Specificity (TNR): 95.374%
- F1-Score: 55.519%
- ROC AUC: 87.198%
- PR AUC: 58.491%
- Performance: 64.452%
- Weighted: False

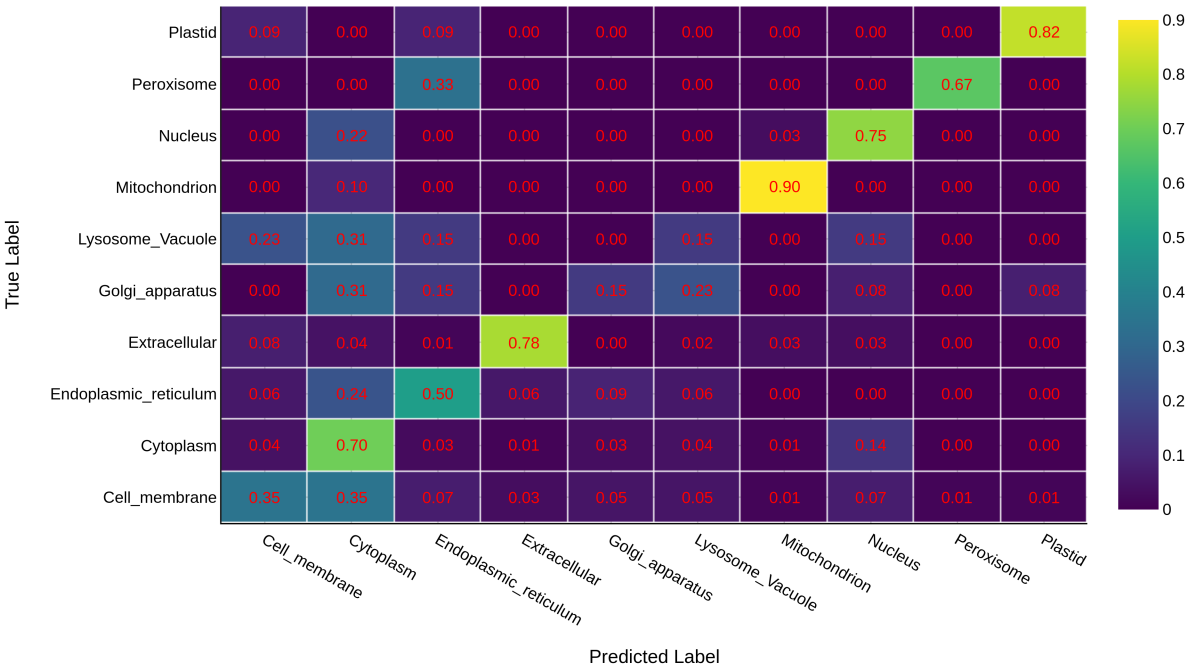
### Test Set Performance (Sampled Statistics)

MetricsSampled Summary:

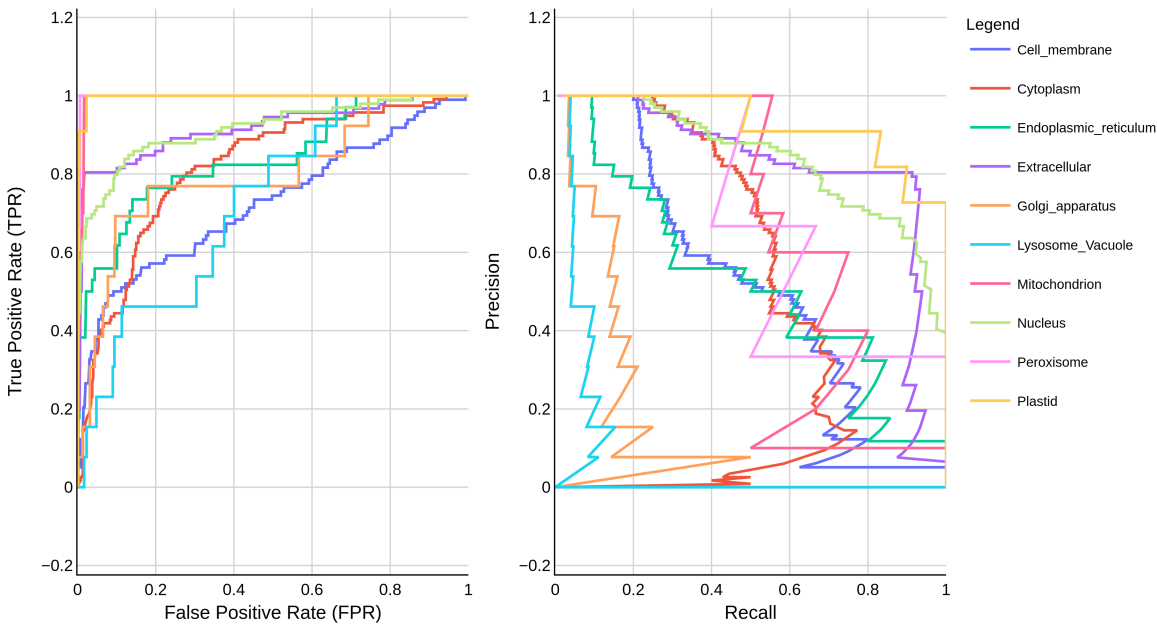
	mean	metric	95% confidence interval
Accuracy:	61.86	[61.75 - 61.96]	
Sensitivity:	57.35	[57.13 - 57.56]	
Specificity:	95.38	[95.36 - 95.39]	
F1-Score:	54.34	[54.15 - 54.53]	

# Figures & Visualizations

Confusion Matrix (LstmAttentionReductionHybridFastKAN)



MultiFigure: ROCCurve | PRCurve



Prediction Confidence Distribution (LstmAttentionReductionHybridFastKAN)

