Liver Fibrosis Staging

Model Evaluation Report

Models: ViT-B-16
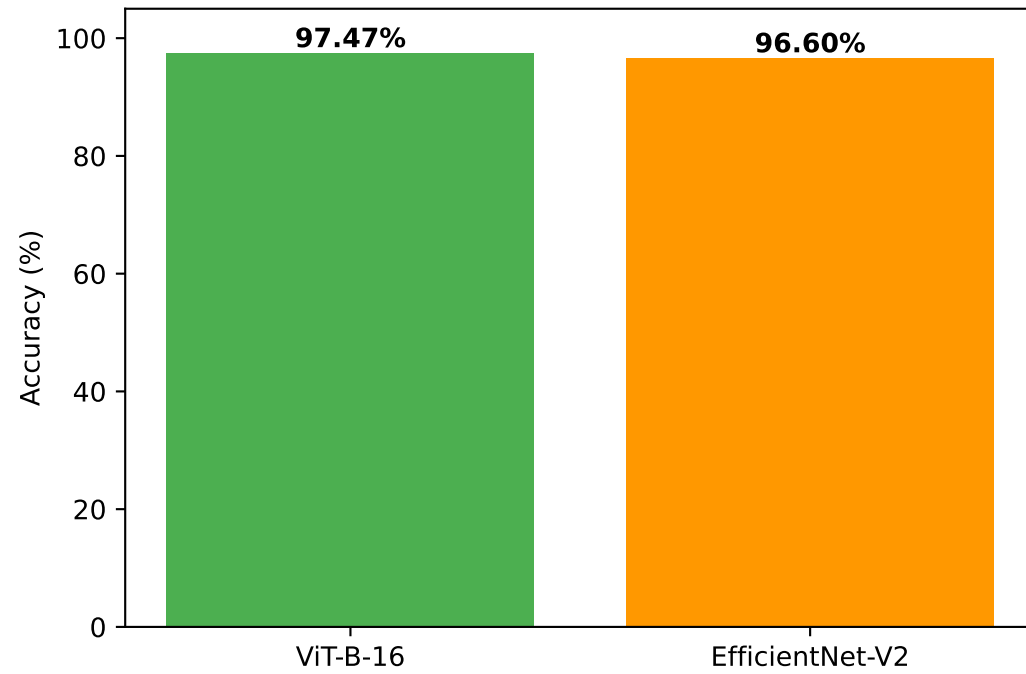
Generated: February 05, 2026

EfficientNet-V2 Accuracy: 96.60%
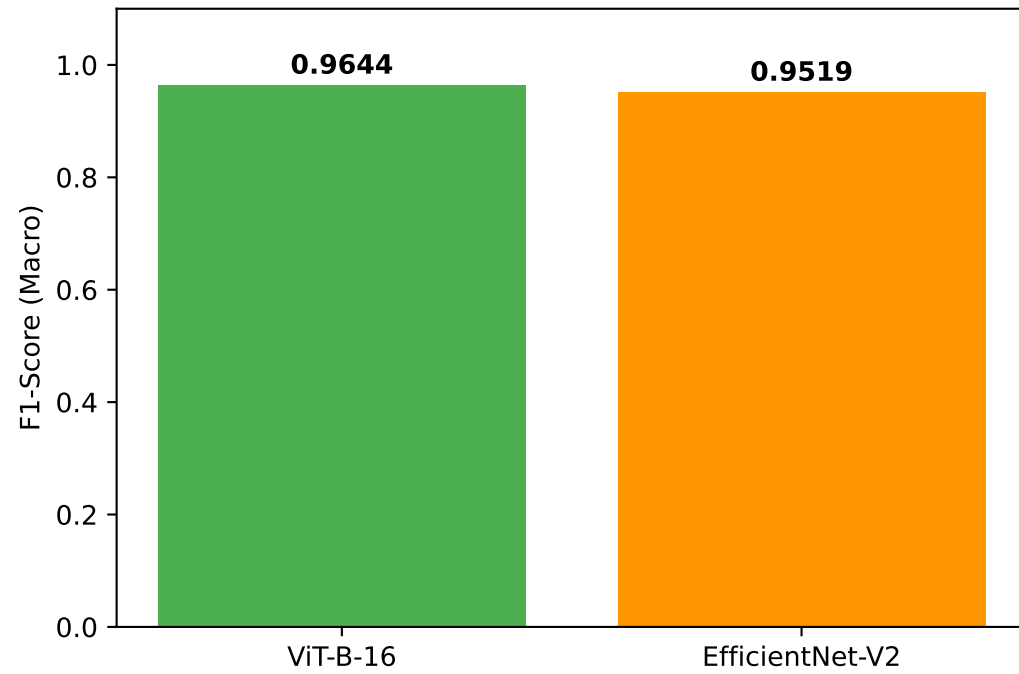
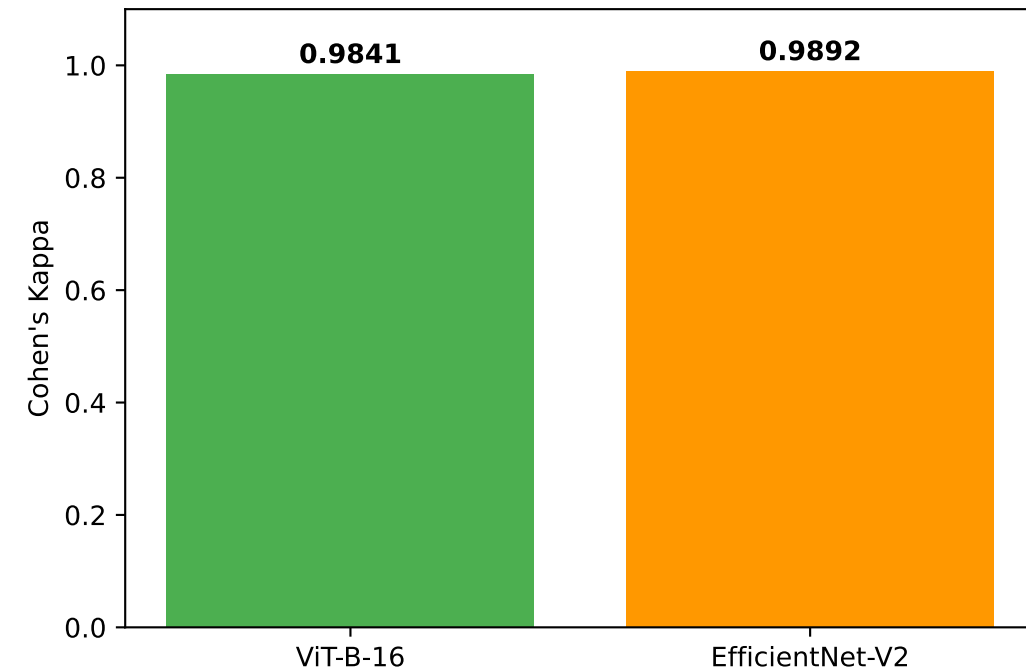**ViT-B-16 Best Accuracy: 97.47%**

Overall Metrics Comparison

Overall Accuracy
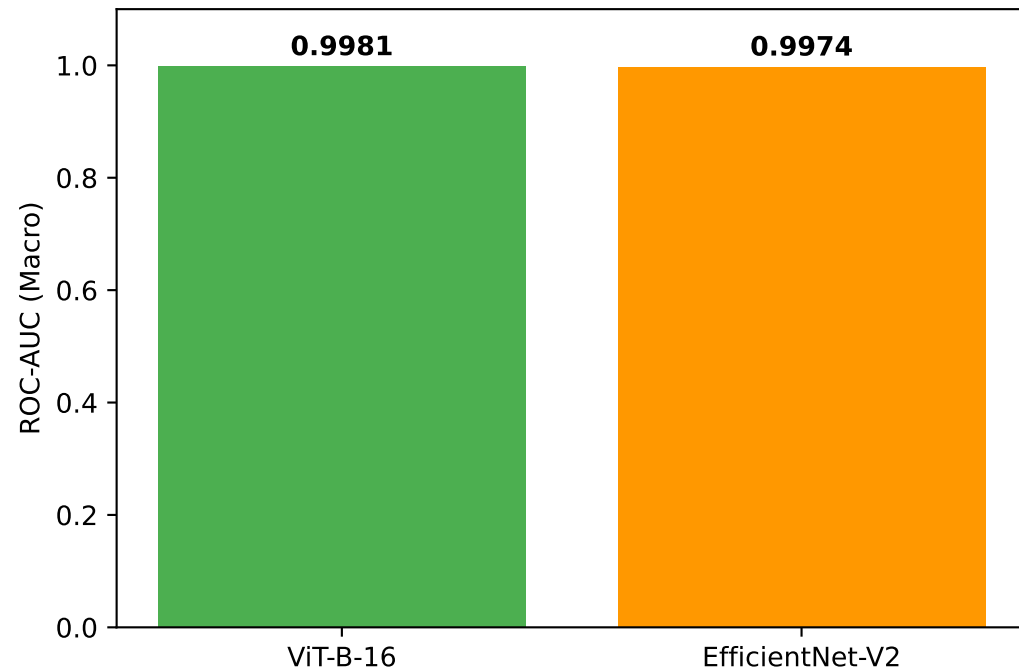
- ViT-B-16: 97.47%
- EfficientNet-V2: 96.60%

F1-Score (Macro)

- ViT-B-16: 0.9644
- EfficientNet-V2: 0.9519

Cohen's Kappa (Quadratic)

- ViT-B-16: 0.9841
- EfficientNet-V2: 0.9892

ROC-AUC (Macro)

- ViT-B-16: 0.9981
- EfficientNet-V2: 0.9974

Per-Class Performance (F0-F4)

Per-Class Accuracy

	ViT-B-16	EfficientNet-V2
F0	100.0	100.0
F1	90.7	93.6
F2	93.7	92.5
F3	97.1	88.3
F4	99.7	100.0

Per-Class F1-Score

	ViT-B-16	EfficientNet-V2
F0	1.00	1.00
F1	0.93	0.94
F2	0.94	0.90
F3	0.96	0.93
F4	0.99	0.98

Per-Class Precision

	ViT-B-16	EfficientNet-V2
F0	1.00	0.00
F1	0.96	0.00
F2	0.95	0.00
F3	0.95	0.00
F4	0.97	0.00

Per-Class Recall
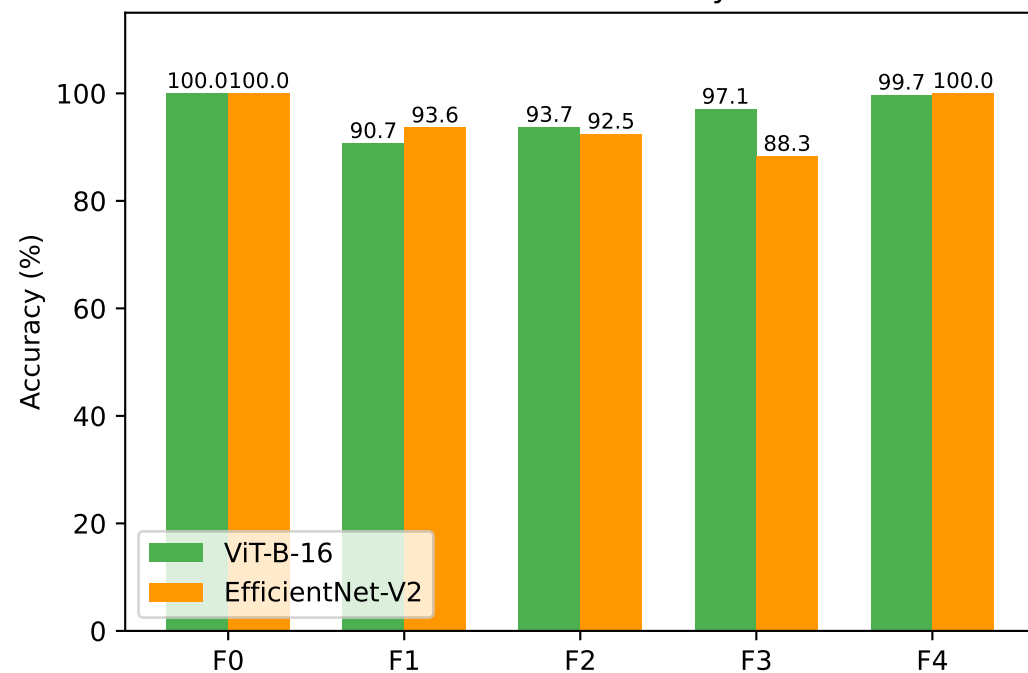
	ViT-B-16	EfficientNet-V2
F0	1.00	0.00
F1	0.91	0.00
F2	0.94	0.00
F3	0.97	0.00
F4	1.00	0.00
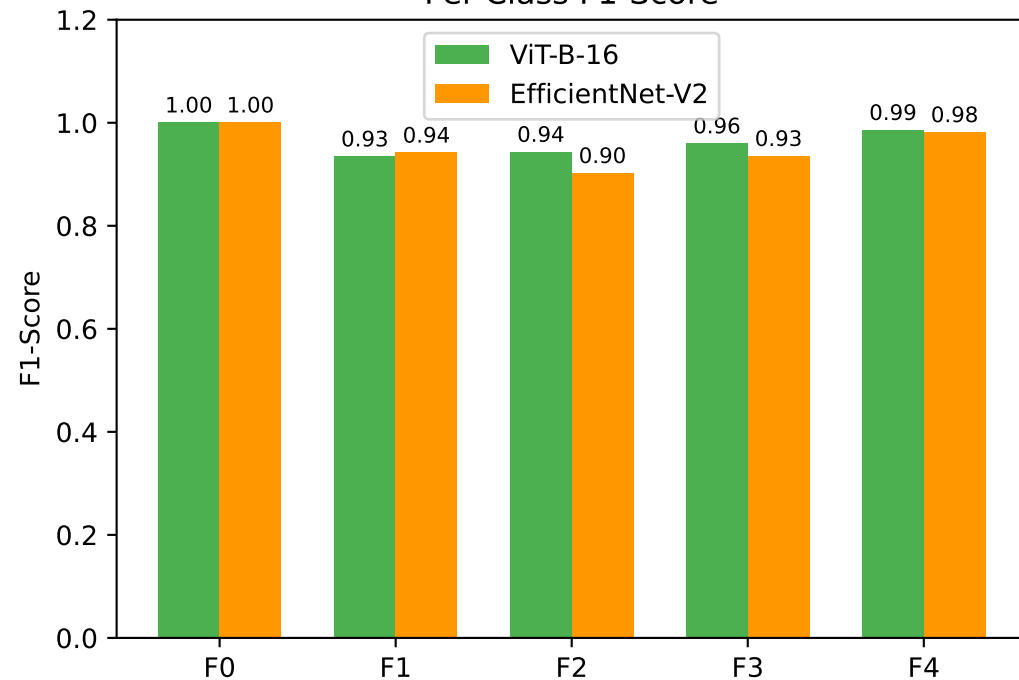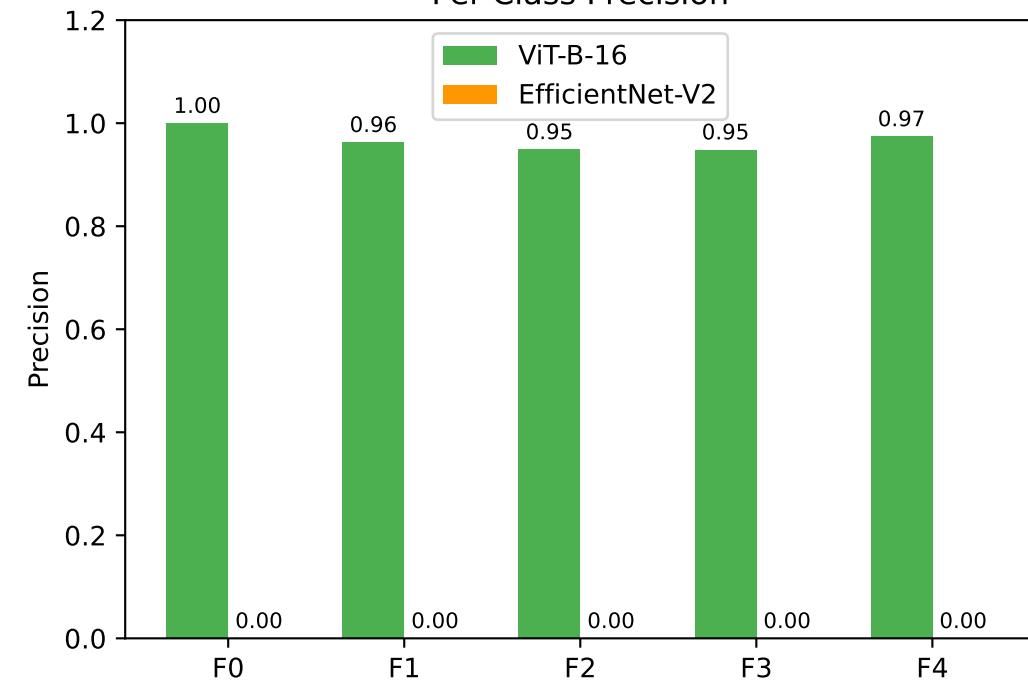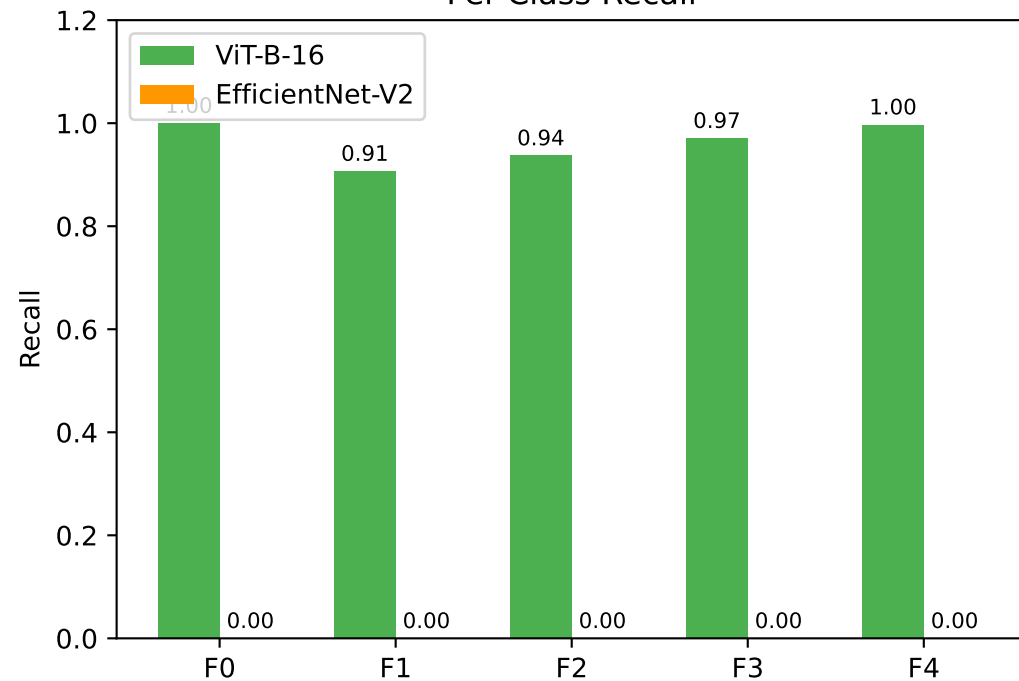
Detailed Metrics Summary

Metric	ViT-B-16	EfficientNet-V2
Accuracy	97.47%	96.60%
F1-Score (Macro)	0.9644	0.9519
F1-Score (Weighted)	0.9745	0.9659
Precision (Macro)	0.9669	0.9568
Recall (Macro)	0.9624	0.9487
Cohen's Kappa	0.9841	0.9892
ROC-AUC	0.9981	0.9974

Per-Class Accuracy

Metric	ViT-B-16	EfficientNet-V2
F0	100.00%	100.00%
F1	90.70%	93.60%
F2	93.71%	92.45%
F3	97.08%	88.30%
F4	99.71%	100.00%

ViT-B-16 Confusion Matrix

ViT-B-16 ROC Curves

ViT-B-16 ROC Curves

Legend:
- F0 (AUC = 1.000)
- F1 (AUC = 0.995)
- F2 (AUC = 0.997)
- F3 (AUC = 0.998)
- F4 (AUC = 1.000)
- Random
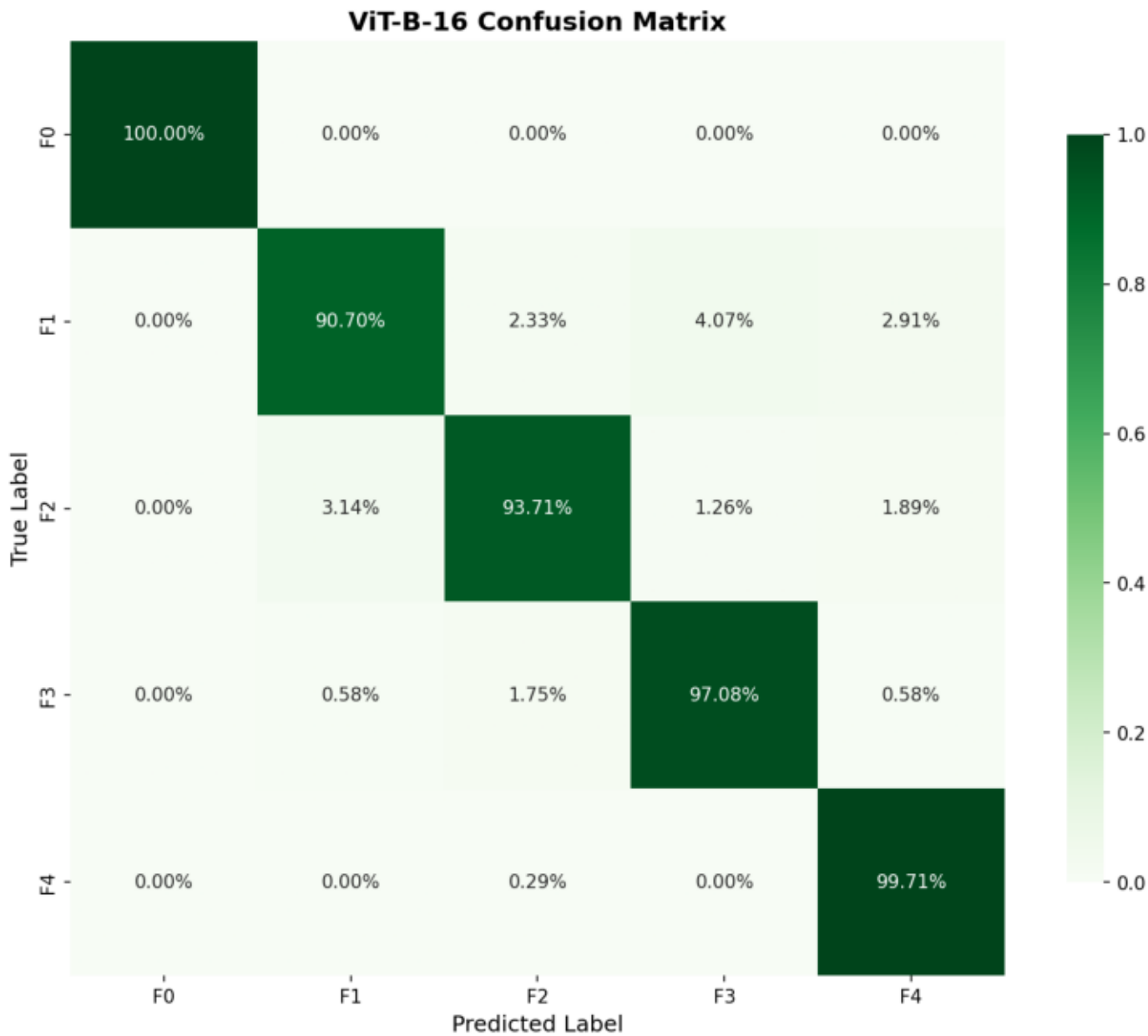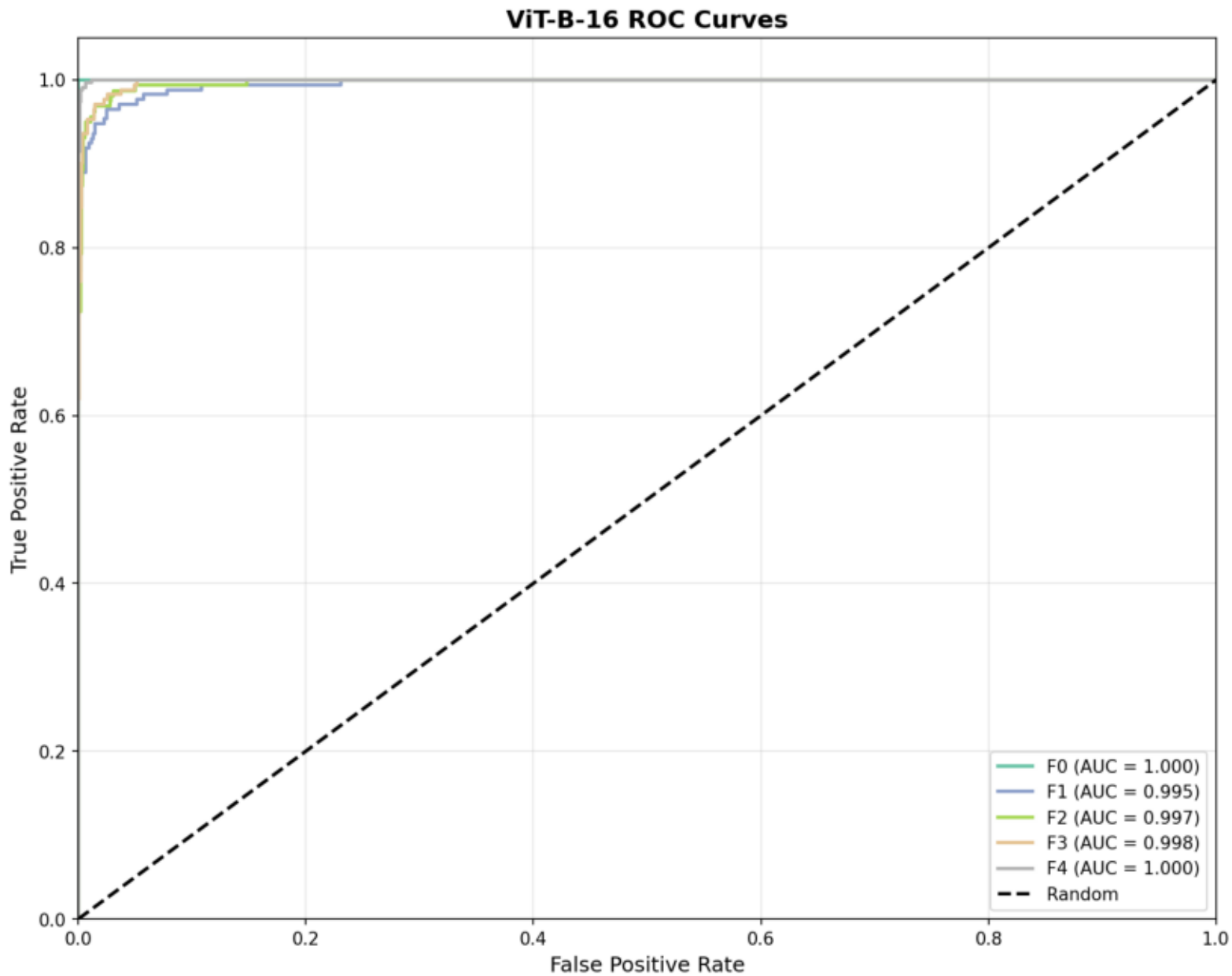
ResNet50 Confusion Matrix

ResNet50 ROC Curves

ResNet50 ROC Curves

- F0 (AUC = 1.000)
- F1 (AUC = 0.989)
- F2 (AUC = 0.975)
- F3 (AUC = 0.983)
- F4 (AUC = 0.997)
- Random

True Positive Rate

False Positive Rate
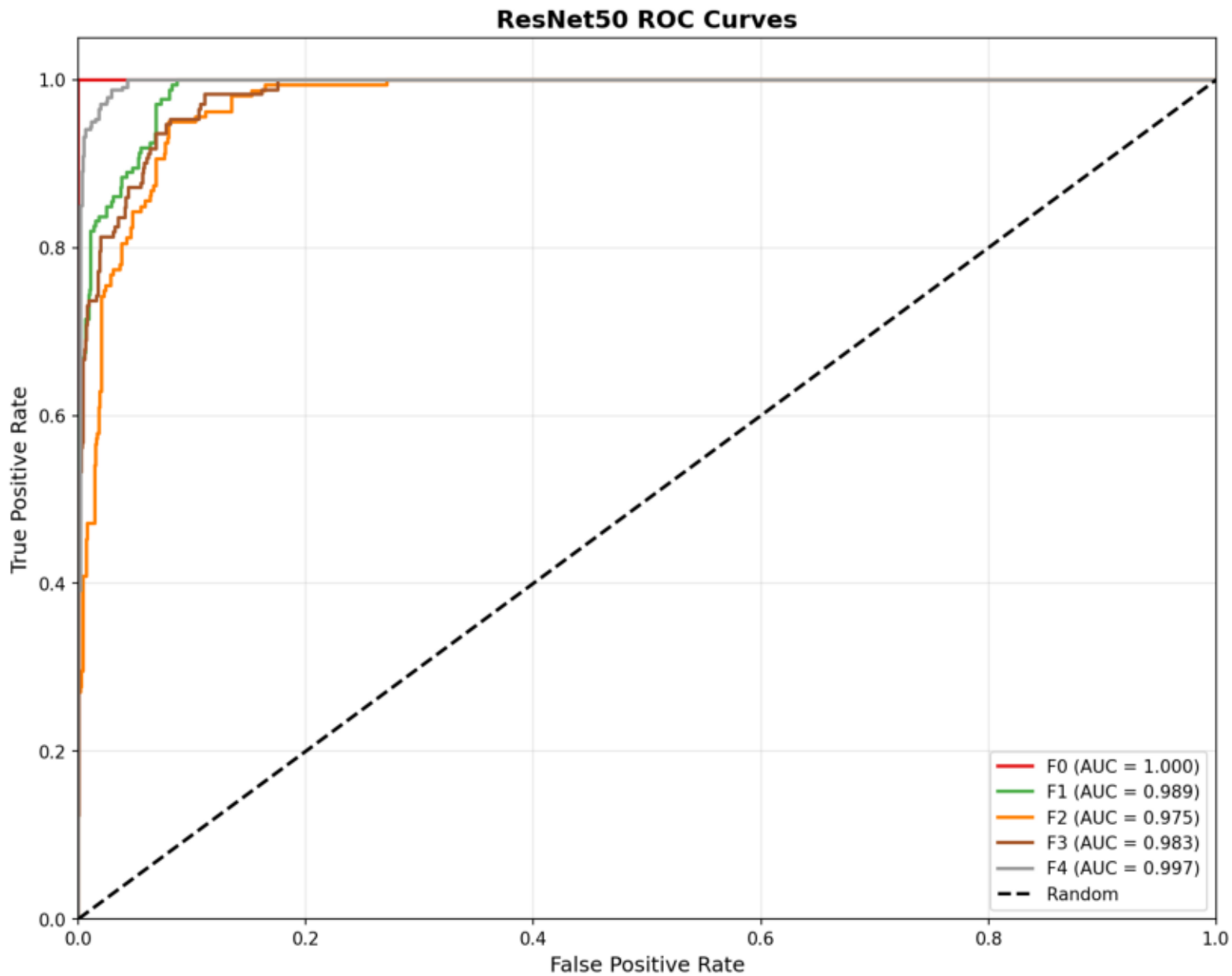
EfficientNet-V2 Confusion Matrix

EfficientNet-V2 ROC Curves

EfficientNet-V2 ROC Curves

Legend:
- F0 (AUC = 1.000)
- F1 (AUC = 0.998)
- F2 (AUC = 0.994)
- F3 (AUC = 0.995)
- F4 (AUC = 0.999)
- Random

X-axis: False Positive Rate
Y-axis: True Positive Rate