Evaluation of Mask Detection

Dataset

1000 images

- 500 Masked images
- 500 No mask images

Configuration

Split: 60%

- Training Data 60%
- Testing Data 40%

Epochs: 500

Batch size: 16

Learning rate: 0.001

Evaluation

Confusion Matrix

Actual Class / Predicted	Masked	No mask
Masked	197	1
No mask	3	199

Accuracy = (197 + 199) / (197 + 199 + 1 + 3) = 0.99

Error = 1 – 0.99 = 0.01

Precision = 197 / (197 + 1) = 0.99495

Recall = 197 / (197 + 3) = 0.985

Specificity = 199 / (199 + 1) = 0.995

F1-Score = (2 * 0.99495 * 0.985) / (0.99495 + 0.985) = 0.98995

Accuracy	Precision	Recall	Specificity	F1
0.99000	0.99495	0.98500	0.99500	0.98995