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Model Evaluation Report
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Model: DistilBERT Sentiment Classifier
Generated: 2025-03-15 18:06:35

Summary:
- Accuracy: 0.9414
- F1 Score (Macro): 0.9408
- Precision (Macro): 0.9497
- Recall (Macro): 0.9321
- ROC AUC: 0.9776

Classes: Negative, Positive
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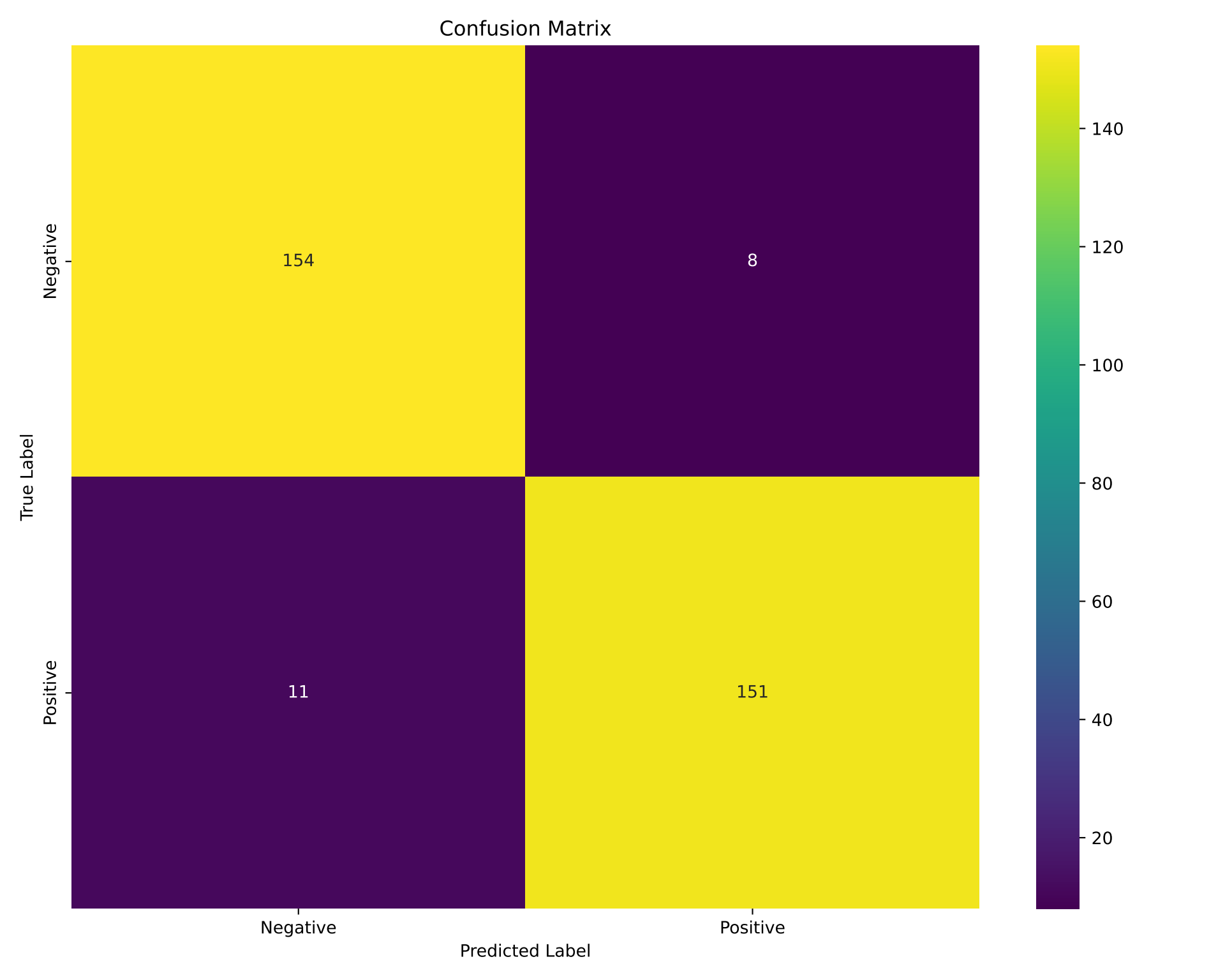
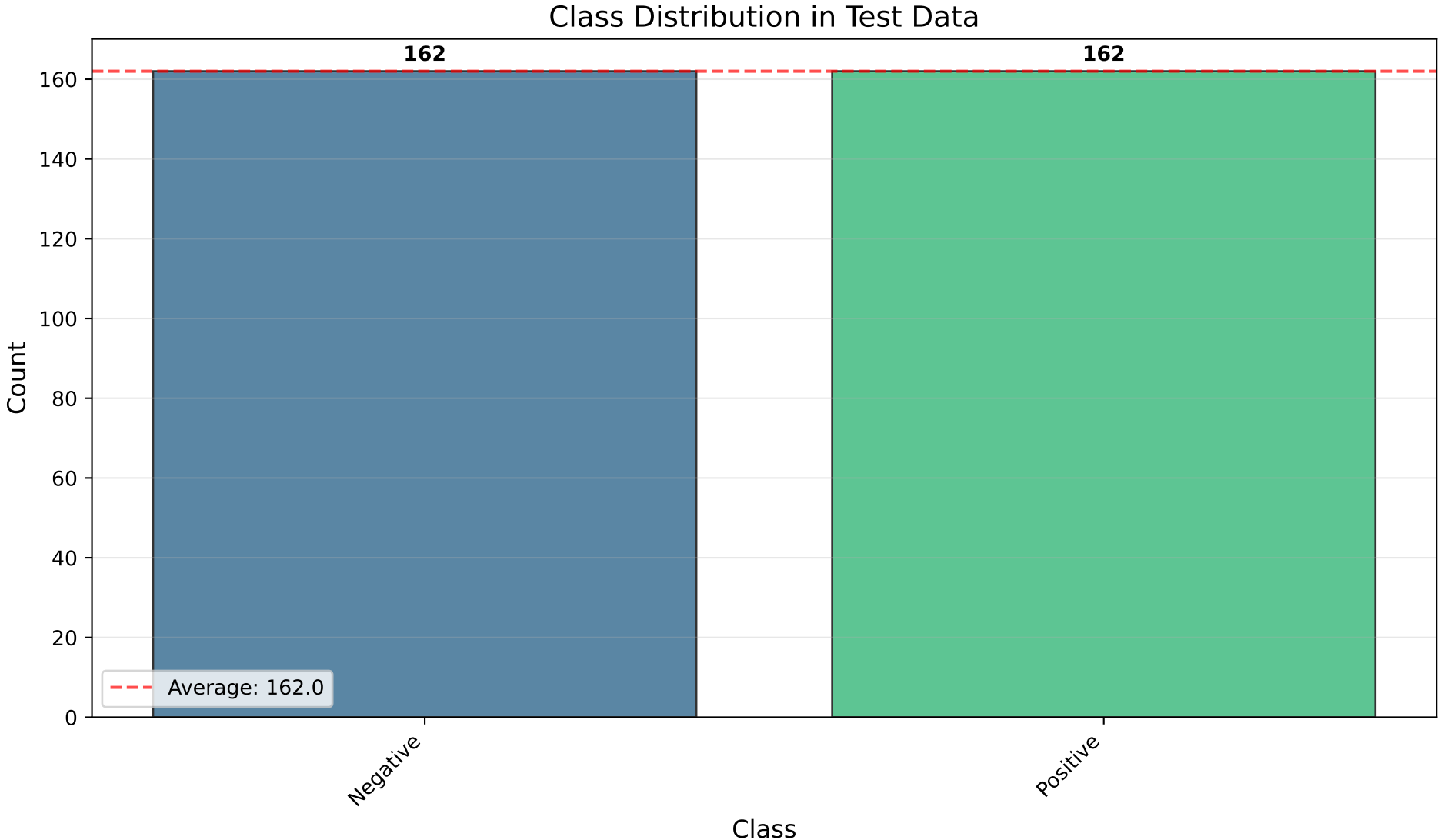
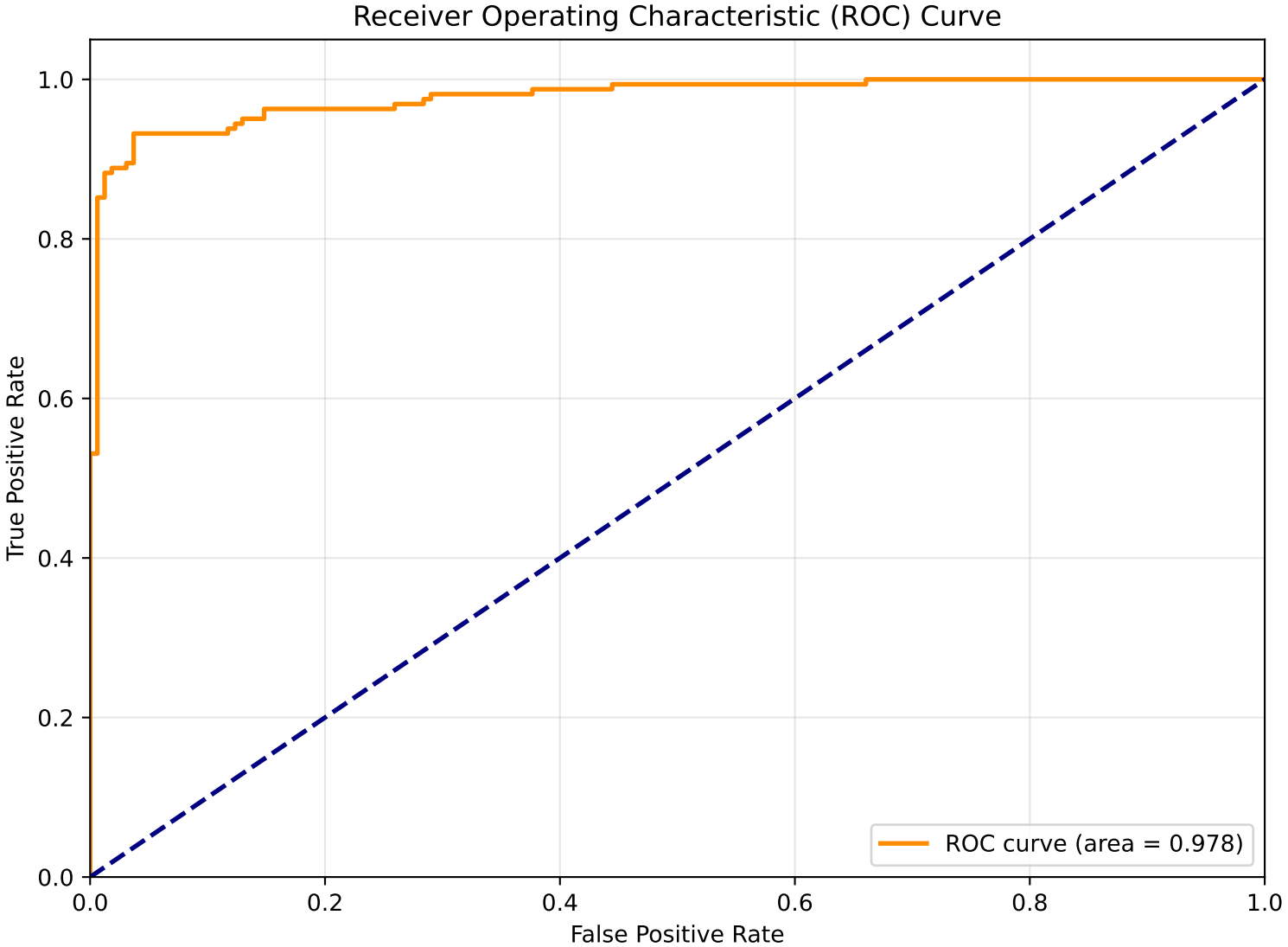

Confusion Matrix
154
8
11
151
Negative
Positive
True Label
Negative
Positive
Predicted Label
140
120
100
80
60
40
20

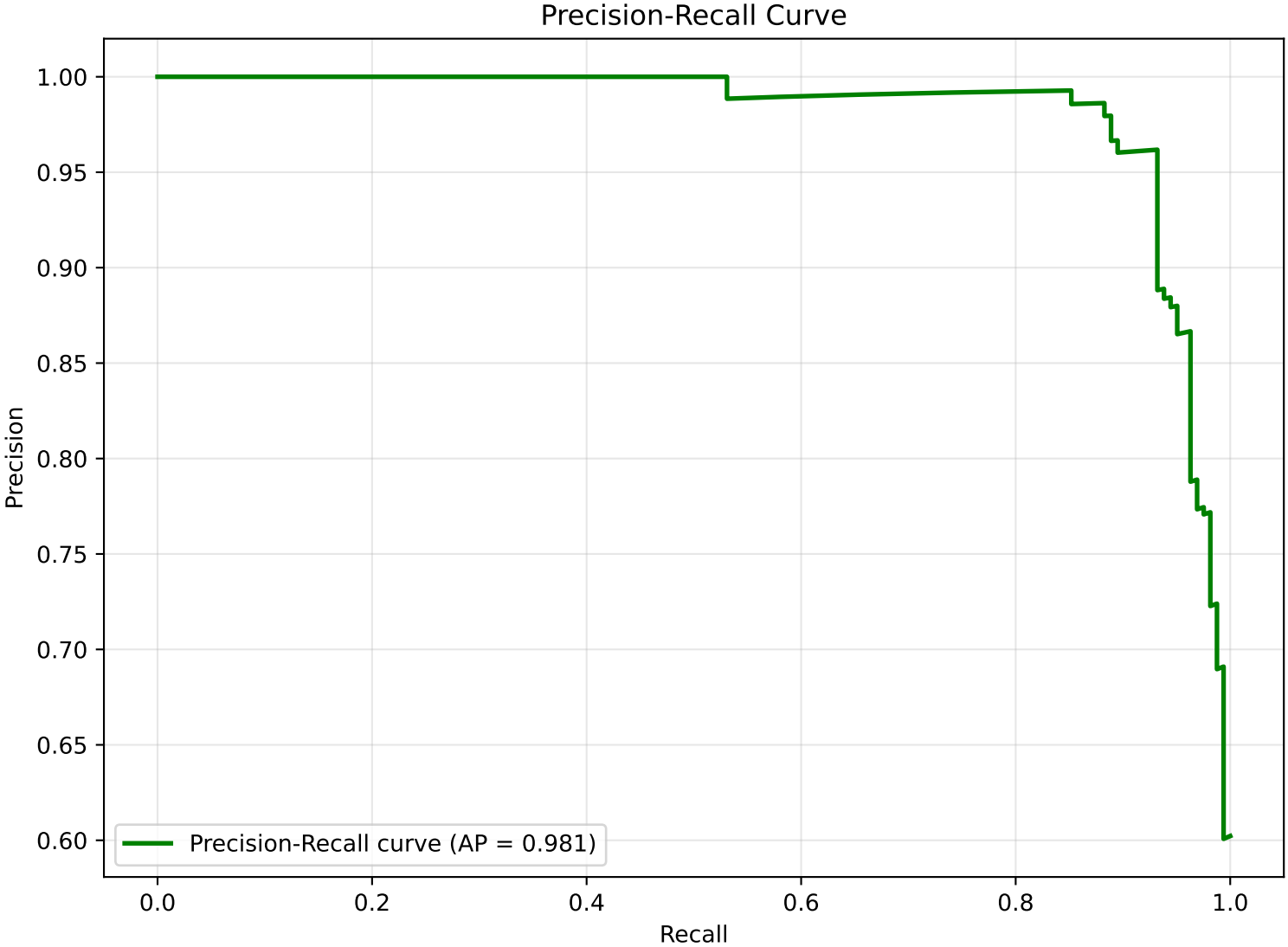
Overall Performance Metrics

	Value
accuracy	0.9414
precision	0.9497
recall	0.9321
f1	0.9408

Per-Class Performance Metrics
Negative
Positive
0.933
0.951
0.942
0.950
0.932
0.941
precision
recall
f1-score
Score Value
1.0
0.8
0.6
0.4
0.2
0.0


Class Distribution in Test Data
162
162
160
140
120
100
80
60
40
20
0
Count
Average: 162.0
Negative
Positive
Class


Receiver Operating Characteristic (ROC) Curve
True Positive Rate
False Positive Rate
0.0
0.2
0.4
0.6
0.8
1.0
ROC curve (area = 0.978)


Precision-Recall Curve
Precision
Recall
1.00
0.95
0.90
0.85
0.80
0.75
0.70
0.65
0.60
0.0
0.2
0.4
0.6
0.8
1.0
Precision-Recall curve (AP = 0.981)