

# Decision Tree - Performance Report

Model: Decision Tree

Parameters: {'ccp\_alpha': 0.0, 'class\_weight': None, 'criterion': 'gini', 'max\_depth': None,

Accuracy: 0.9854  
Precision: 1.0000  
Recall: 0.9709  
F1 Score: 0.9852  
ROC-AUC: 0.9854368932038835

Confusion Matrix:  
[[102 0]  
[ 3 100]]

Classification Report:

	precision	recall	f1-score	support
0	0.97	1.00	0.99	102
1	1.00	0.97	0.99	103
accuracy			0.99	205
macro avg	0.99	0.99	0.99	205
weighted avg	0.99	0.99	0.99	205

Feature Importance:  
[0.05512466 0.02643406 0.27452362 0.04706853 0.09632829 0.00837078  
0.0148814 0.05387434 0.01886571 0.09450313 0.04398379 0.11890111  
0.14714059]

## Decision Tree Visualization

