Iris Dataset - Decision Tree Classifier Report

Dataset Overview:

The Iris dataset contains 150 samples with 4 numerical features: sepal_length, sepal_width, petal_length, and petal_width. The target variable is species (Setosa, Versicolor, Virginica).
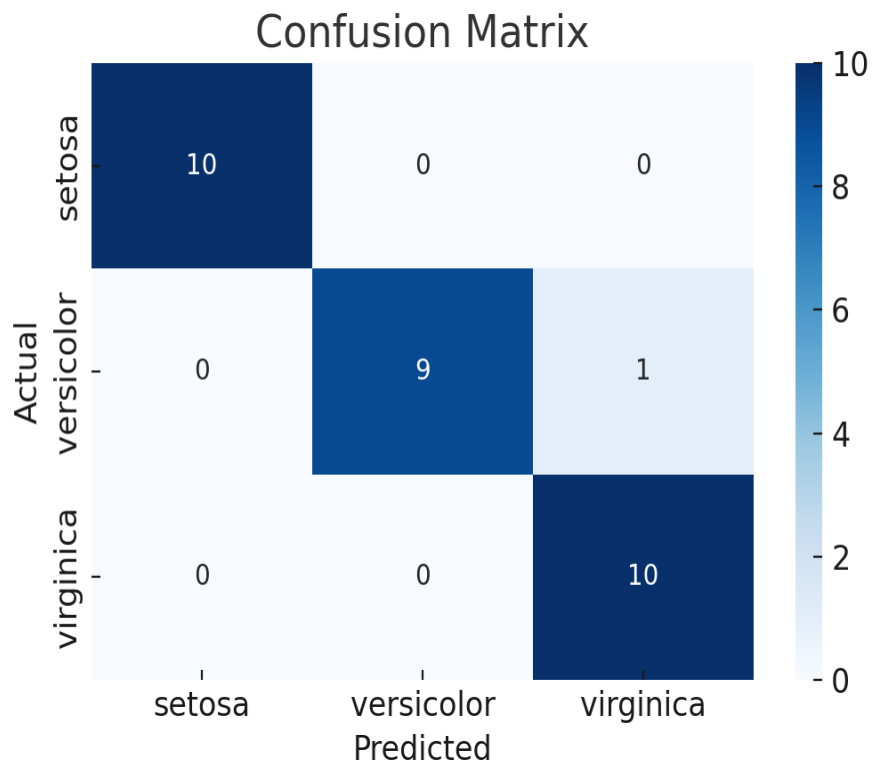
Model Used: Decision Tree Classifier

Parameters: max_depth=3, random_state=42

Model Performance:

Accuracy: 0.97

Class	Precision	Recall	F1-Score	Support	
setosa	1.00	1.00	1.00	10	
versicolor	1.00	0.90	0.95	10	
virginica	0.91	1.00	0.95	10	
macro	avg	0.97	0.97	0.97	30
weighted	avg	0.97	0.97	0.97	30

Confusion Matrix:

Confusion Matrix

Decision Tree Visualization: