

## FUNCTIONAL AND PERFORMANCE TESTING

### 6.1 Performance Testing

Models are evaluated using:

- **Accuracy**
- **Precision**
- **Recall**
- **F1-score**

```
# Evaluate the model
print(confusion_matrix(y_test, y_pred))
print(classification_report(y_test, y_pred))
print("Accuracy:", accuracy_score(y_test, y_pred))
```

```
[[5 0]
 [0 5]]
```

		precision	recall	f1-score	support
	0	1.00	1.00	1.00	5
	1	1.00	1.00	1.00	5
	accuracy			1.00	10
	macro avg	1.00	1.00	1.00	10
	weighted avg	1.00	1.00	1.00	10

```
Accuracy: 1.0
```

Evaluating accuracy, precision, recall, and F1-score for various ML models.