

✓
0s

[113]

```
print("Class probabilities for the first 5 samples:", clf.predict_proba(X_
```

⇒ Class probabilities for the first 5 samples:

```
[[0. 1. 0.]  
 [1. 0. 0.]  
 [0. 0. 1.]  
 [0. 1. 0.]  
 [0. 1. 0.]]
```

✓
1s



```
accuracy = accuracy_score(y_test, y_pred)  
print("Accuracy of the model:", accuracy)
```

⇒ Accuracy of the model: 1.0

✓
0s

[115]

```
accuracy_alternative = clf.score(X_test, y_test)  
print("Accuracy of the model (using score method):", accuracy_alternative)
```

⇒ Accuracy of the model (using score method): 1.0

✓
0s



```
df = pd.read_csv('/content/drive/MyDrive/Ai/heart.csv')  
df.head()
```



	age	sex	cp	trestbps	chol	fb	restecg	thalach	exang	oldpeak	slope	ca	thal	target
0	52	1	0	125	212	0	1	168	0	1.0	2	2	3	0
1	53	1	0	140	203	1	0	155	1	3.1	0	0	3	0
2	70	1	0	145	174	0	1	125	1	2.6	0	0	3	0
3	61	1	0	148	203	0	1	161	0	0.0	2	1	3	0
4	62	0	0	138	294	1	1	106	0	1.9	1	3	2	0



Next steps:

[Generate code with df](#)

[View recommended plots](#)

[New interactive sheet](#)

✓ 0s [120] model = LinearRegression()
model.fit(X_train, y_train)

↔ LinearRegression ⓘ ?
LinearRegression()

✓ 0s [124] df = pd.read_csv('/content/drive/MyDrive/Ai/gender_submission.csv')
df.head()

↔

	PassengerId	Survived
0	892	0
1	893	1
2	894	0
3	895	0
4	896	1

📊

Next steps: [Generate code with df](#)

[View recommended plots](#)

[New interactive sheet](#)

↔ LogisticRegression ⓘ ?
LogisticRegression(max_iter=1000)

✓ 0s [125] accuracy = accuracy_score(y_test, y_pred)
conf_matrix = confusion_matrix(y_test, y_pred)
class_report = classification_report(y_test, y_pred)

↔ /usr/local/lib/python3.10/dist-packages/sklearn/metrics/_classification.py:1565: UndefinedMetricWarning:
_warn_prf(average, modifier, f"{metric.capitalize()} is", len(result))
/usr/local/lib/python3.10/dist-packages/sklearn/metrics/_classification.py:1565: UndefinedMetricWarning:
_warn_prf(average, modifier, f"{metric.capitalize()} is", len(result))
/usr/local/lib/python3.10/dist-packages/sklearn/metrics/_classification.py:1565: UndefinedMetricWarning:
_warn_prf(average, modifier, f"{metric.capitalize()} is", len(result))

✓
0s

```
print(f"Accuracy: {accuracy}")  
print(f"Confusion Matrix:\n{conf_matrix}")  
print(f"Classification Report:\n{class_report}")
```



Accuracy: 0.5952380952380952

Confusion Matrix:

[[50 0]

[34 0]]

Classification Report:

	precision	recall	f1-score	support
0	0.60	1.00	0.75	50
1	0.00	0.00	0.00	34
accuracy			0.60	84
macro avg	0.30	0.50	0.37	84
weighted avg	0.35	0.60	0.44	84