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From sklearn.datasets import load_iris

From sklearn.ensemble import RandomForestClassifier

From sklearn.model_selection import train_test_split

From sklearn.metrics import accuracy_score, classification_report


# Load the Iris dataset

Iris = load_iris()

X = iris.data

Y = iris.target


# Split the dataset into training and testing sets (80% train, 20% test)

X_train, X_test, y_train, y_test = train_test_split(X, y, test_size=0.2,
random_state=42)


# Create a Random Forest Classifier

Clf = RandomForestClassifier(n_estimators=100, random_state=42)


# Train the model

Clf.fit(X_train, y_train)


# Make predictions

Y_pred = clf.predict(X_test)


# Evaluate the model

Print("Accuracy:", accuracy_score(y_test, y_pred))
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Print("\nClassification Report:\n", classification_report(y_test, y_pred)

OUTPUT :

Accuracy: 1.0

Classification Report:

	Precision	recall	f1-score	support
0	1.00	1.00	1.00	10
1	1.00	1.00	1.00	9
2	1.00	1.00	1.00	11
Accuracy			1.00	30
Macro avg	1.00	1.00	1.00	30
Weighted avg	1.00	1.00	1.00	30