In [2]:
```
# Import required libraries
import numpy as np
import pandas as pd
from sklearn.datasets import load_iris
from sklearn.model_selection import train_test_split
from sklearn.naive_bayes import GaussianNB
from sklearn.metrics import accuracy_score, classification_report
```

In [4]:
```
# Load the Iris dataset
iris = load_iris()
X = iris.data
y = iris.target
```

In [6]:
```
# Split the dataset into training and test sets
X_train, X_test, y_train, y_test = train_test_split(
    X, y, test_size=0.3, random_state=42, stratify=y
)
```

In [8]:
```
# Initialize and train the Naive Bayes classifier
nb_classifier = GaussianNB()
nb_classifier.fit(X_train, y_train)
```

Out [8]:
```
GaussianNB()
```

In [10]:
```
# Predict using the test data
y_pred = nb_classifier.predict(X_test)
```

In [12]:
```
# Compute and display accuracy
accuracy = accuracy_score(y_test, y_pred)
print(f"Accuracy of the Naive Bayes Classifier: {accuracy:.2f}")
```

```
Accuracy of the Naive Bayes Classifier: 0.91
```

In [14]:
```
# Detailed classification report
print("\nClassification Report:")
print(classification_report(y_test, y_pred, target_names=iris.target_names))
```

```
Classification Report:
              precision    recall  f1-score   support

      setosa       1.00      1.00      1.00        15
  versicolor       0.82      0.93      0.88        15
   virginica       0.92      0.80      0.86        15

    accuracy                           0.91        45
```

```
              precision    recall  f1-score   support

   macro avg       0.92      0.91      0.91        45
weighted avg       0.92      0.91      0.91        45
```