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import pandas as pd
from sklearn.model_selection import train_test_split
from sklearn.naive_bayes import GaussianNB
from sklearn.metrics import confusion_matrix, accuracy_score, precision_score, recall_score,
f1_score
from sklearn.datasets import load_iris
# Load the Iris dataset
iris_data = load_iris()
x = pd.DataFrame(iris_data['data'], columns=iris_data['feature_names'])
y = pd.DataFrame(iris_data['target'], columns=['target'])
# Split the data into training and testing sets
X_train, X_test, y_train, y_test = train_test_split(x, y, test_size=0.2, random_state=42)
# Create a Naïve Bayes model (Gaussian Naïve Bayes for continuous features)
model = GaussianNB()
# Train the model
model.fit(X_train, y_train)
# Make predictions on the test set
y_pred = model.predict(X_test)
# Compute Confusion Matrix
conf_matrix = confusion_matrix(y_test, y_pred)
# Compute Performance Metrics
accuracy = accuracy_score(y_test, y_pred)
precision = precision_score(y_test, y_pred, average='weighted') # weighted precision for multi-class
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recall = recall_score(y_test, y_pred, average='weighted') # weighted recall for multi-class f1 = f1_score(y_test, y_pred, average='weighted') # weighted F1 score for multi-class
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# Print the results
print("Confusion Matrix:")
print(conf_matrix)
print("\nAccuracy:", accuracy)
print("Precision:", precision)
print("Recall:", recall)
print("F1 Score:", f1)
```