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import numpy as np
import pandas as pd
from sklearn.neighbors import KNeighborsClassifier
from sklearn.metrics import accuracy_score, classification_report
from sklearn.model selection import train test split
from sklearn.preprocessing import StandardScaler
Loading the data for the breast cancer dataset
url = "https://archive.ics.uci.edu/ml/machine-learning-databases/breast-cancer-wisconsin/breast-cancer-wisconsin.data"
"Bland Chromatin", "Normal Nucleoli", "Mitoses", "Class"]
cancerData = pd.read_csv(url, names=column_names)
# cleaning and replacing the null values
cancerData.replace("?", np.nan, inplace=True)
cancerData.drop("ID", axis=1, inplace=True)
# filling missing values
cancerData = cancerData.apply(pd.to_numeric)
cancerData.fillna(cancerData.mean(), inplace=True)
# getting the x and y axis
X = cancerData.drop("Class", axis=1)
y = cancerData["Class"]
X_train, X_test, y_train, y_test = train_test_split(X, y, test_size=0.3, random_state=42)
scaler = StandardScaler()
X_train = scaler.fit_transform(X_train)
X_test = scaler.transform(X_test)
knn = KNeighborsClassifier(n neighbors=5)
knn.fit(X_train, y_train)
     * KNeighborsClassifier
    KNeighborsClassifier()
Prediction on the dataset
y_pred = knn.predict(X_test)
Evaluating the printing the model
dataReport = classification_report(y_test, y_pred, target_names=["Benign", "Malignant"])
accuracyOfData = accuracy_score(y_test, y_pred)
print("Accuracy of the data :", accuracyOfData)
Accuracy of the data : 0.966666666666667
    Classification Report for the data :
                  precision
                              recall f1-score
                                                support
          Benign
                      0.97
                               0.99
                                        0.98
                                                   143
       Malignant
                      0.97
                               0.93
                                        0.95
                                                   67
                                        0.97
                                                   210
        accuracy
       macro avg
                      0.97
                               0.96
                                        0.96
                                                   210
                      0.97
                               0.97
                                        0.97
                                                   210
    weighted avg
```