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# Import necessary libraries
import pandas as pd
from sklearn.model_selection import train_test_split
from sklearn.preprocessing import LabelEncoder
from sklearn.naive_bayes import GaussianNB
from sklearn.metrics import accuracy_score

# Load data from CSV
data = pd.read_csv('tennisdata.csv')
print("The first 5 values of data are:\n", data.head())

# Obtain Train data and Train output
X = data.iloc[:, :-1]
print("\nThe First 5 values of train data are\n", X.head())

y = data.iloc[:, -1]
print("\nThe first 5 values of Train output are\n", y.head())

# Convert them to numbers
le_outlook = LabelEncoder()
X['Outlook'] = le_outlook.fit_transform(X['Outlook'])

le_Temperature = LabelEncoder()
X['Temperature'] = le_Temperature.fit_transform(X['Temperature'])

le_Humidity = LabelEncoder()
X['Humidity'] = le_Humidity.fit_transform(X['Humidity'])

le_Windy = LabelEncoder()
X['Windy'] = le_Windy.fit_transform(X['Windy'])

print("\nNow the Train data is :\n", X.head())

le_PlayTennis = LabelEncoder()
y = le_PlayTennis.fit_transform(y)
print("\nNow the Train output is\n", y)

# Split the data into training and testing sets
X_train, X_test, y_train, y_test = train_test_split(X, y, test_size=0.20)

# Create and train the Naive Bayes classifier
classifier = GaussianNB()
classifier.fit(X_train, y_train)

# Make predictions and evaluate accuracy
y_pred = classifier.predict(X_test)
print("Accuracy is:", accuracy_score(y_pred, y_test))

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