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import numpy as np
import matplotlib.pyplot as plt
import pandas as pd

dataset = pd.read_csv(r"C:\Users\admin\Downloads\Data (3).csv")

X = dataset.iloc[:, :-1].values
Y = dataset.iloc[:, 3].values

from sklearn.impute import SimpleImputer

imputer = SimpleImputer()
imputer = imputer.fit(X[:, 1:3])
X[:, 1:3] = imputer.transform(X[:, 1:3])

from sklearn.preprocessing import LabelEncoder

labelencoder_X = LabelEncoder()
X[:, 0] = labelencoder_X.fit_transform(X[:, 0])

labelencoder_Y = LabelEncoder()
Y = labelencoder_Y.fit_transform(Y)

from sklearn.model_selection import train_test_split

X_train,X_test,Y_train,Y_test=train_test_split(X,Y,test_size=0.2,random_state=0)

from sklearn.preprocessing import StandardScaler

sc_X = StandardScaler()
X_train = sc_X.fit_transform(X_train)
X_test = sc_X.transform(X_test)

from sklearn.preprocessing import Normalizer

sc_X = Normalizer()
X_train = sc_X.fit_transform(X_train)
X_test = sc_X.transform(X_test)

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