Load the diabetes dataset from sklearn import tree from pandas import read_csv import os import numpy as np df = read_csv("diabetes.csv") df Pregnancies Glucose BloodPressure SkinThickness Insulin BMI DiabetesPedigreeFunction Age Outcome \blacksquare 0 6 148 72 35 0 33.6 0.627 50 1 ılı. 7 0 1 85 66 29 0 26.6 0.351 31 2 8 0 0 23.3 32 183 64 0.672 1 3 1 89 66 23 94 28.1 0.167 21 0 4 0 137 40 35 168 43.1 2.288 33 1 763 10 101 76 48 180 32.9 0.171 63 0 2 122 70 27 764 27 0 36.8 0.340 765 5 121 72 23 112 26.2 0.245 30 766 126 60 0 0 30.1 0.349 47 767 1 93 70 31 0 30.4 0.315 23 0 768 rows × 9 columns # Separate the target variable (Outcome) from the features x = np.array(df.drop(["Outcome"], 1)) y = np.array(df["Outcome"]) <ipython-input-13-d8842ffd1975>:2: FutureWarning: In a future version of pandas all arguments of DataFrame.drop except for the argument x = np.array(df.drop(["Outcome"], 1)) 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 = 100) # Standardize the features (mean=0, std=1) from sklearn.preprocessing import StandardScaler scaler = StandardScaler() x_train = scaler.fit_transform(x_train) x_test = scaler.transform(x_test) x_train array([[1.88463592, 1.27687979, 0.77783004, ..., -0.51456163, -0.84288402, 1.79638519], [0.07136908, 0.7783476 , 0.82920565, ..., -0.3654626 , -0.82219993, -0.54025457], $[-0.5330532 \ , \ -0.34334984, \ \ 0.26407397, \ \ldots, \ \ 0.06940956,$ 0.68182914, -0.54025457], [0.07136908, -0.90419856, 0.57232761, ..., 1.28705162, -0.68036615, -0.36717014], [-0.5330532 , -0.28103332, -0.14693089, ..., -0.85003444, -0.47352521, -0.79988121], [-0.5330532 , -1.65199685, 0.05857154, ..., -0.85003444, -0.82810967, -0.71333899]])

logistic_regression = LogisticRegression()
Fit the model to the training data
logistic_regression.fit(x_train, y_train)

from sklearn.linear_model import LogisticRegression

Create a Logistic Regression model

v LogisticRegression
LogisticRegression()

Make predictions on the test data
y_pred = logistic_regression.predict(x_test)

Evaluate the model
from sklearn.metrics import accuracy_score, confusion_matrix, classification_report
accuracy = accuracy_score(y_test, y_pred)
print(accuracy*100,"%")

73.37662337662337 %