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

dataset=pd.read_csv(r"D:\Data Science with AI\Data Science With AI\3-august-2.LOGISTIC REGRESSION.csv")

x=dataset.iloc[:,[2,3]].values
y=dataset.iloc[:, -1].values

from sklearn.model_selection import train_test_split
x_train,x_test,y_train,y_test=train_test_split(x,y,test_size=0.20,random_state=0)

from sklearn.preprocessing import StandardScaler
sc=StandardScaler()
x_train=sc.fit_transform(x_train)
x_test=sc.transform(x_test)

from sklearn.linear_model import LogisticRegression
classifier=LogisticRegression()
classifier.fit(x_train,y_train)

y_pred=classifier.predict(x_test)

from sklearn.metrics import confusion_matrix
cm=confusion_matrix(y_test,y_pred)
print(cm)

from sklearn.metrics import accuracy_score
ac=accuracy_score(y_test,y_pred)
print(ac)

from sklearn.metrics import classification_report
cr=classification_report(y_test,y_pred)
cr

bias=classifier.score(x_train,y_train)
bias

variance=classifier.score(x_test,y_test)
variance

model_score=variance*100
model_score

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