

Logistic Regression

```
import pandas as pd

import matplotlib.pyplot as plt

import numpy as np


dataset = pd.read_csv(r'D:\Samsom - All Data\Naresh IT Institute\New folder\logit
classification.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 = 0.25, 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)
```

```
# This is to get the Classification report  
from sklearn.metrics import classification_report  
cr = classification_report(y_test, y_pred)  
print(cr)
```