Logistic Regression

Importing the libraries

Importing the dataset

Splitting the dataset into the Training set and Test set

```
from sklearn.model selection import train test split
In [3]:
          X_train, X_test, y_train, y_test = train_test_split(X, y, test_size = 0.25, r
In [4]:
       ▶ print(X_train)
                                      1.07986610e-01 ... -8.50246556e-02
          [[ 1.30747000e+05 2.04716304e+00
           -8.42920007e-02 7.70000000e-01]
           [ 8.13440000e+04 1.28240449e+00
                                      4.59864448e-01 ... -1.01678633e-02
           -5.33248686e-03 1.79000000e+00]
           [ 1.59004000e+05 -4.14862511e-01 1.20257796e-02 ... 2.37627707e-01
            2.04342556e-01 5.95000000e+00]
           3.66494418e-03 3.49000000e+01]
           -3.24705125e-02 1.71310000e+02]
           [ 7.48870000e+04 -5.89399721e-01 7.47828393e-01 ... 8.65917860e-02
            1.18083774e-01 1.59900000e+01]]
In [5]:  ▶ | print(y_train)
```

[000...000]

In [6]:

▶ print(X test)

```
[[ 1.25821000e+05 -3.23333572e-01 1.05745525e+00 ... 1.08494430e-01
              1.61139167e-01 4.00000000e+01]
            [ 1.57235000e+05 -3.49718405e-01 9.32618570e-01 ... 7.68300272e-02
              1.75561960e-01 1.98000000e+00]
            [ 1.52471000e+05 -1.61471082e+00 -2.40656973e+00 ... 2.86285101e-01
              4.37321868e-01 9.60000000e+01]
            [ 5.74810000e+04 1.40322087e+00 -4.39300461e-01 ... -1.04050698e-02
              6.48925492e-03 1.00000000e+01]
            [ 1.53018000e+05 -3.23131065e+00 2.10313977e+00 ... 4.72312731e-01
             -1.92528808e-01 9.99900000e+01]
            [ 4.03190000e+04 1.25756139e+00 -7.24477151e-01 ... -1.01754487e-01
              1.19557412e-02 9.00000000e+01]]
In [7]:
        print(y_test)
           [0 0 0 ... 0 0 0]
       Feature Scaling
In [8]:
        ▶ | from sklearn.preprocessing import StandardScaler
           sc = StandardScaler()
           X train = sc.fit transform(X train)
           X test = sc.transform(X test)
In [9]:
        ▶ print(X train)
           0.06657394 ... -0.21031503 -0.2607924
             -0.35356699]
                         [-0.2834455
             -0.34945825]
            [ 1.35155922 -0.21266203  0.00863513  ...  0.59177033  0.631378
             -0.33270102]
            [-0.38298583 0.77014889 -0.57187168 ... -0.00246971 0.01108282
             -0.21608519]
            [ 0.05149257  0.91611288 -1.02491801 ... -0.0825166 -0.100612
              0.33339889]
            [-0.41938711 -0.30165824 0.45289483 ... 0.21630833 0.36475181
             -0.29225808]]
```

Training the Logistic Regression model on the Training set

Predicting the Test set results

Making the Confusion Matrix