

```
import pandas as pd #useful for loading the dataset
import numpy as np #to perform array

from google.colab import files
uploaded = files.upload()

→ Choose Files DigitalAd_dataset.csv
• DigitalAd_dataset.csv(text/csv) - 4893 bytes, last modified: 4/16/2024 - 100% done
Saving DigitalAd_dataset.csv to DigitalAd_dataset.csv
```

```
dataset = pd.read_csv('DigitalAd_dataset.csv')
```

```
print(dataset.shape)
print(dataset.head(5))
```

```
→ (400, 3)
   Age  Salary  Status
0    18    82000      0
1    29    80000      0
2    47   25000       1
3    45   26000       1
4    46   28000       1
```

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

```
→ [ 54,  70000],
[ 41,  72000],
[ 40,  71000],
[ 42,  54000],
[ 43, 129000],
[ 53,  34000],
[ 47,  50000],
[ 42,  79000],
[ 42, 104000],
[ 59,  29000],
[ 58,  47000],
[ 46,  88000],
[ 38,  71000],
[ 54,  26000],
[ 60,  46000],
[ 60,  83000],
[ 39,  73000],
[ 59, 130000],
[ 37,  80000],
[ 46,  32000],
[ 46,  74000],
[ 42,  53000],
[ 41,  87000],
[ 58,  23000],
[ 42,  64000],
[ 48,  33000],
[ 44, 139000],
[ 49,  28000],
[ 57,  33000],
[ 56,  60000],
[ 49,  39000],
[ 39,  71000],
[ 47,  34000],
[ 48,  35000],
[ 48,  33000],
[ 47,  23000],
[ 45,  45000],
[ 60,  42000],
[ 39,  59000],
[ 46,  41000],
[ 51,  23000],
[ 50,  20000],
[ 36,  33000],
[ 49,  36000],
[ 19,  19000],
[ 35,  20000],
[ 26,  43000],
[ 27,  57000],
[ 19,  76000],
[ 27,  58000],
[ 27,  84000],
[ 32, 150000],
[ 25,  33000],
[ 35,  65000],
[ 26,  80000],
[ 26,  52000],
[ 20,  86000],
[ 32,  18000]])
```



```
[0 1]
[0 1]
[1 1]
[0 1]
[1 1]
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[0 0]
[1 1]
[1 1]]
```

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

print("Confusion Matrix: ")
print(cm)

print("Accuracy of the Model: {:.0}%".format(accuracy_score(y_test, y_pred)*100))

→ Confusion Matrix:
[[61  0]
 [20 19]]
Accuracy of the Model: 80.0%
```