

```
from google.colab import files
files.upload()
```

Choose Files Social_Network_Ads.csv

- **Social_Network_Ads.csv**(text/csv) - 4903 bytes, last modified: 8/26/2022 - 100% done

Saving Social_Network_Ads.csv to Social_Network_Ads.csv

```
{ 'Social_Network_Ads.csv':
```

b'Age,EstimatedSalary,Purchased\r\n19,19000,0\r\n35,20000,0\r\n26,43000,0\r\n27,57000,0

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

```
#Importing the dataset
dataset = pd.read_csv('Social_Network_Ads.csv')
X = dataset.iloc[:, :-1].values
y = dataset.iloc[:, -1].values
```

```
dataset.head()
```

	Age	EstimatedSalary	Purchased
0	19	19000	0
1	35	20000	0
2	26	43000	0
3	27	57000	0
4	19	76000	0

```
#Splitting the dataset into the Training set and Test set
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 =
```

```
#Feature Scaling
#Scaling using Standard Scaler for normal distribution
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```
from sklearn.preprocessing import StandardScaler
sc=StandardScaler()
X_train= sc.fit_transform(X_train)
X_test= sc.transform(X_test)
```

```
#Building model using RBF kernel
from sklearn.svm import SVC
classifier = SVC(kernel = 'rbf', random_state = 0)
classifier.fit(X_train, y_train)
y_pred_rbf = classifier.predict(X_test)
```

```
#Printing the confusion matrix
from sklearn.metrics import confusion_matrix
cm_rbf = confusion_matrix(y_test, y_pred)
print(cm_rbf)
```

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 [ 3 29]]
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```
#Classification_Report
from sklearn.metrics import classification_report
class_report_rbf= classification_report(y_test, y_pred)
print(class_report_rbf)
```

	precision	recall	f1-score	support
0	0.96	0.94	0.95	68
1	0.88	0.91	0.89	32
accuracy			0.93	100
macro avg	0.92	0.92	0.92	100
weighted avg	0.93	0.93	0.93	100