

In [13]: `import numpy as np
import matplotlib.pyplot as plt
import pandas as pd`

In [14]: `df=pd.read_csv('heart.csv')
df.head()
df=df.drop(columns=['thal'])
df`

Out[14]:

	age	sex	cp	trestbps	chol	fbs	restecg	thalach	exang	oldpeak	slope	ca	target
0	63	1	3	145	233	1	0	150	0	2.3	0	0	1
1	37	1	2	130	250	0	1	187	0	3.5	0	0	1
2	41	0	1	130	204	0	0	172	0	1.4	2	0	1
3	56	1	1	120	236	0	1	178	0	0.8	2	0	1
4	57	0	0	120	354	0	1	163	1	0.6	2	0	1
...
298	57	0	0	140	241	0	1	123	1	0.2	1	0	0
299	45	1	3	110	264	0	1	132	0	1.2	1	0	0
300	68	1	0	144	193	1	1	141	0	3.4	1	2	0
301	57	1	0	130	131	0	1	115	1	1.2	1	1	0
302	57	0	1	130	236	0	0	174	0	0.0	1	1	0

303 rows × 13 columns

In [15]: `independent=df[["age","sex","cp","trestbps","chol","fbs","restecg","thalach","exang","oldpeak","slope","ca"]]
dependent=df[["target"]]
from sklearn.model_selection import train_test_split
X_train,X_test,Y_train,Y_test=train_test_split(independent,dependent,test_size=1/3,random_state=0)`

In [16]: `from sklearn.svm import SVC
Classifier=SVC(kernel='rbf',random_state=0)
Classifier.fit(X_train,Y_train)`

C:\ProgramData\anaconda3\Lib\site-packages\sklearn\utils\validation.py:1184: DataConversionWarning: A column-vector y was passed when a 1d array was expected. Please change the shape of y to (n_samples,), for example using ravel().
y = column_or_1d(y, warn=True)

Out[16]:

▼ SVC

SVC(random_state=0)

In [17]: `Y_pred=Classifier.predict(X_test)`

In [18]: `age=int(input("enter the age value"))
sex=int(input("enter the sex value"))
cp=int(input("enter the cp value"))
trestbps=int(input("enter the trestbps value"))
chol=int(input("enter the chol value"))
fbs=int(input("enter the fbs value"))
restecg=int(input("enter the restecg value"))
thalach=int(input("enter the thalach value"))
exang=int(input("enter the exang value"))
oldpeak=float(input("enter the oldpeak value"))
slope=int(input("enter the slope value"))
ca=int(input("enter the ca value"))
future_prediction=Classifier.predict([[age,sex,cp,trestbps,chol,fbs,restecg,thalach,exang,oldpeak,slope,ca,]])
print("future_prediction={Purchased=0,Non Purchased=1}",format(future_prediction))`

enter the age value54
enter the sex value1
enter the cp value0
enter the trestbps value58
enter the chol value10
enter the fbs value25
enter the restecg value025
enter the thalach value25
enter the exang value120
enter the oldpeak value254.3
enter the slope value250
enter the ca value320
future_prediction={Purchased=0,Non Purchased=1} [1]

C:\ProgramData\anaconda3\Lib\site-packages\sklearn\base.py:464: UserWarning: X does not have valid feature names, but SVC was fitted with feature names
warnings.warn(

In []: