

```
import pandas as pd
import numpy as np
```

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

Choose Files data.csv

- **data.csv**(text/csv) - 14133 bytes, last modified: 3/22/2023 - 100% done
Saving data.csv to data (1).csv

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

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

```
(94, 2)
      x      y
0 168.181818 160.840244
1 187.878788 159.413657
2 207.575758 157.136809
3 227.272727 159.357847
4 246.969697 157.542862
```

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

```
array([[ 168.18181818],
       [ 187.87878788],
       [ 207.57575758],
       [ 227.27272727],
       [ 246.96969697],
       [ 266.66666667],
       [ 286.36363636],
       [ 306.06060606],
       [ 325.75757576],
       [ 345.45454545],
       [ 365.15151515],
       [ 384.84848485],
       [ 404.54545455],
       [ 424.24242424],
       [ 443.93939394],
       [ 463.63636364],
       [ 483.33333333],
       [ 503.03030303],
       [ 522.72727273],
       [ 542.42424242],
       [ 562.12121212],
       [ 581.81818182],
       [ 601.51515152],
       [ 621.21212121],
       [ 640.90909091],
       [ 660.60606061],
       [ 680.3030303 ],
       [ 700.          ],
       [ 719.6969697 ],
       [ 739.39393939],
       [ 759.09090909],
       [ 778.78787879],
       [ 798.48484848],
       [ 818.18181818],
       [ 837.87878788],
       [ 857.57575758],
       [ 877.27272727],
       [ 896.96969697],
       [ 916.66666667],
       [ 936.36363636],
       [ 956.06060606],
       [ 975.75757576],
       [ 995.45454545],
       [1015.15151515],
       [1034.84848485],
       [1054.54545455],
       [1074.24242424],
       [1093.93939394],
       [1113.63636364],
       [1133.33333333],
       [1153.03030303],
       [1172.72727273],
```

```
[1192.42424242],
[1212.12121212],
[1231.81818182],
[1251.51515152],
[1271.21212121],
[1292.00000001]
```

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

```
array([160.84024381, 159.41365734, 157.1368088 , 159.35784736,
157.54286158, 157.73520716, 159.34756091, 155.23404557,
155.80774009, 158.3299704 , 157.62585291, 160.47697951,
158.22940639, 157.41781684, 163.37069148, 160.18481104,
160.96838974, 158.18080666, 160.13850728, 161.6460876 ,
159.31922497, 162.56957785, 160.81387414, 161.62873371,
161.20567768, 166.31061698, 162.77603585, 160.88457814,
164.84205952, 160.95225209, 164.00863628, 159.86853854,
161.32847639, 164.57554065, 165.85572104, 164.91849414,
164.54143071, 164.36748958, 162.20962269, 163.92394795,
164.63932852, 167.87182021, 166.64178203, 162.62543484,
166.99665279, 165.77528998, 165.38858024, 168.16274652,
169.19836268, 169.19589357, 165.85186798, 167.10884798,
168.58676929, 170.07230238, 167.35983334, 168.14383356,
166.49945126, 166.51667766, 170.73111225, 172.01551036,
169.35597976, 171.70403549, 170.61721144, 168.80066958,
171.01067 , 173.56092162, 170.6101661 , 174.00807519,
165.83626737, 172.91653228, 171.64379111, 171.06865197,
172.04715792, 168.08546823, 171.81823198, 173.1687706 ,
175.60730324, 171.81194441, 171.42846734, 172.23891016,
175.27019817, 174.29386586, 172.77381293, 175.0568379 ,
174.42142783, 176.36153241, 173.21710593, 174.16285752,
174.23093521, 172.28509132, 176.00133146, 176.12817115,
175.81325722, 175.53082573])
```

```
from sklearn.model_selection import train_test_split
x_train,x_test,y_train,y_test = train_test_split(X,Y,test_size=0.20,random_state=0)
```

```
from sklearn.svm import SVR
model = SVR()
model.fit(x_train,y_train)
```

► SVR

```
ypred = model.predict(x_test)

from sklearn.metrics import r2_score,mean_squared_error
mse = mean_squared_error(y_test,ypred)
rmse=np.sqrt(mse)
print("Root Mean Square Error:",rmse)
r2score = r2_score(y_test,ypred)
print("R2Score",r2score*100)
```

```
Root Mean Square Error: 2.3594718844452056
R2Score 86.64242653738367
```

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