Double-click (or enter) to edit

```
Import library
```

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

Importing the dataset

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

```
print(X)
print(y)
```

```
2154. 2121.350098 2131.550049 2124.715088]
[[2141.
[2120.
            2123.899902 2088. 2097.050049 2090.325684]
                                   2081.850098 2075.174316]
Γ2118.
            2122. 2077.
[2149.350098 2203.
                      2128.149902 2173.5
                                               2173.5
[2168.850098 2185.199951 2147.850098 2164.25
                                               2164.25
            2186.800049 2152.600098 2172.649902 2172.64990211
[15731396 10401212 11667129 15098991 8947563 27630190 12961252 12537520
28648125 17821397 12437162 8577634 13141644 10119064 12643749 25525961
64750460 27445768 20335273 12542824 15668979 11919927 15264068 15519031
16056620 19839282 13764841 13095028 9076248 11926328 11290667 9591456
 8732869 8497216 24538346 9727405 8558745 6565515 10666190 12341434
 9246702 9960828 14398973 8529573 15728986 14215215 10809307 17225212
16835005 13809929 14147418 15700946 45857806 40931170 37003111 17170274
30770080 16539467 17045147 26178477 18481466 20946864 21479385 14030652
12828008 26522972 20918665 14277083 15062376 11924527 21845931 9114939
10240168 12822945 8521388 8418767 20030506 13464375 7414229 12434745
 7989830 8561406 8565904 9346460 8522215 20368545 12986606 8999898
 9588577 7947719 8589407 10173132 8667516 4622002 11312992 11132803
21414270 14918406 12709792 15371556 18996047 12284876 9946818 9503790
16198856 14771048 14271669 18038987 14090818 25016570 19553809 15722291
20173258 15774504 19138414 13984228 11826848 9344470 9776136 9047308
 9799560 19631870 14074374 7287590 9886093 10957388 8605531 10800704
10985697 11834752 4987735 16085897 17297575 8159670 7915073 14733134
 9892597 11773630 9002404 6993792 5316182 7783173 7706170 6402757
 8865521 9528809 19284892 8571196 8039865 7763726 10153757 9313160
 9433842 7499740 5410307 6864856 6465241 11198918 7092878 6478482
 9646031 8958261 9102492 7225679 8527967 7939490 6687573 5459016
 9620785 9226547 7902002 8035915 9150974 10909942 10083693
                                                            5719649
 6749281 5671163 6433879 6220217 6081627 6134079 5479424 5567958
 7530294 5271497 4977555 3946636 6821015 3452113 12377100 26060864
27285782 12928379 11366816 11064116 6677278 7539326 4464889
                                                            5265326
 6532832 6351520 9383416 7002898 4982975 7266765 13553801 5624044
 5940386 7685796 42209687 25546334 9357852 12526981 9120556
 6500973 5400604 4647361 4824931 5162088 4170886 3962111
                                                             3099956
 3937768 4360415 4074206 3855577 3111185 3679260 4585938
                                                            5717830
 4995516
          5952355 6352886 5238304 5041934
                                            5453682 6077861
                                                             9807831
         3458546 5500708 4238859 3755507 5898384 10123204
 7670583
                                                             5841743
 46500081
```

```
y = y.reshape(len(y), 1)
y
```

```
[13553801],
 5624044],
 5940386],
[ 7685796],
[42209687],
[25546334],
[ 9357852],
[12526981],
[ 9120556],
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 5952355],
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 5238304],
 5041934],
 5453682],
 6077861],
 9807831],
 7670583],
 3458546],
 5500708],
 4238859],
 3755507],
 5898384],
[10123204],
[ 5841743],
[ 1650008]])
```

Splitting Dataset into Train and Test

```
from sklearn.model_selection import train_test_split
X_train, X_test, y_train, y_test = train_test_split(X, y, test_size = 0.2, random_state = 0)
```

Feature Scaling

```
from sklearn.preprocessing import StandardScaler
sc_x = StandardScaler()
sc_y = StandardScaler()
X_train = sc_x.fit_transform(X_train)
y_train = sc_y.fit_transform(y_train)
```

Training the SVR model on the training set

Predicting the test set results

```
y_pred = sc_y.inverse_transform(regressor.predict(sc_x.transform(X_test)))
np.set_printoptions(precision=2)
print(np.concatenate((y_pred.reshape(len(y_pred), 1), y_test.rehape(len(y_test), 1))))
```

```
ValueError
                                         Traceback (most recent call last)
<ipython-input-44-036c16dd5562> in <cell line: 1>()
---> 1 y_pred = sc_y.inverse_transform(regressor.predict(sc_x.transform(X_test)))
      2 np.set_printoptions(precision=2)
     3 print(np.concatenate((y_pred.reshape(len(y_pred), 1), y_test.rehape(len(y_test), 1))))
                                1 frames
/usr/local/lib/python3.9/dist-packages/sklearn/utils/validation.py in check_array(array, accept_sparse, accept_large_sparse, dtype,
order, copy, force_all_finite, ensure_2d, allow_nd, ensure_min_samples, ensure_min_features, estimator, input_name)
                   # If input is 1D raise error
    901
                   if arrav.ndim == 1:
--> 902
                        raise ValueError(
    903
                            "Expected 2D array, got 1D array instead:\narray={}.\n"
                            "Reshape your data either using array.reshape(-1, 1) if "
    904
ValueError: Expected 2D array, got 1D array instead:
array=[-0.51402477 -0.06790167 -0.00129973 -0.05659866 0.03922851 -0.44306128
 -0.55020851 -0.4510927 -0.66199156 -0.6221312 0.14607555 -0.2149928
 -0.42165366 -0.16752322 -0.25360715 -0.03070679 -0.31591791 -0.09792665
 -0.62135195 -0.38037292 -0.11227181 0.44180026 -0.10363613 -0.48934615
 -0.16648762 -0.12636204 -0.24522663 0.44042338 -0.22332495 0.43651636
 -0.22177642 -0.01375416 -0.52470598 -0.2882943 -0.39687367 0.3641901
 0.31415166 -0.27157955 -0.62412496 -0.29553957 -0.44264198 -0.49196125
 -0.33934788 -0.34253064 -0.37499297 -0.22746391 -0.34642627 -0.25042194
 -0.32143222 -0.665911231.
Reshape your data either using array.reshape(-1, 1) if your data has a single feature or array.reshape(1, -1) if it contains a single
 SEARCH STACK OVERFLOW
```

Evaluating the model performance

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