**Standardization**

from sklearn.preprocessing import StandardScaler

sc=StandardScaler()

x\_train=sc.fit\_transform(x\_train)

x\_test=sc.transform(x\_test)

**SVM – Model** **Creation**

**Parameters : --**kernel='rbf'--

**kernel*{‘linear’, ‘poly’, ‘rbf’, ‘sigmoid’, ‘precomputed’} or callable, default=’rbf’***

***Hyper Parameter: --***kernel='rbf',C=0.01--

***C=0.01,C=0.10,C=1,C=10,C=100,……..***

from sklearn.svm import SVR

regressor=SVR(kernel='rbf')

regressor=regressor.fit(x\_train,y\_train)

**Scores**

|  |  |
| --- | --- |
| **SVM- Parameters** | **R scores** |
| **kernel='rbf'** | -0.057418393916219834 |
| **kernel='*linear*'** | -0.05569157045504447 |
| **kernel='*poly*'** | -0.05710387514922144 |
| **kernel='*sigmoid*** | -0.057209358534722865 |
| **kernel= *‘precomputed’*** | Not for this matrix |

**https://scikit-learn.org/stable/modules/generated/sklearn.svm.SVR.html**