**Support Vector Machine-Regression**

**Without Standarisation**

R score value =0.8950779235664468

**Standardised**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S.No** | **Parameter** | **Linear** | **rbf** | **Poly** | **Sigmoid** |
| 1 | **C=1** | **-0.05569157045504447** | **-0.057418393916219834** | **-0.05710387514922144** | **-0.057209358534722865** |
| 2 | **C=10** | **-0.03964494678192798** | **-0.05680759285862336** | **-0.05366720512712608** | **-0.05471958332940319** |
| 3 | **C=100** | **0.10646819600577351** | **-0.05072602278128757** | **-0.019802139315272305** | **-0.03045351486430925** |
| 4 | **C=500** | **0.5928977271145746** | **-0.024323348197438532** | **0.11468480742657639** | **0.07057214489673913** |
| 5 | **C=1000** | **0.7802839882154124** | **0.0067683444800727965** | **0.26616370931646915** | **0.18506861974160804** |
| 6 | **C=2000** | **0.8767721687716029** | **0.06751554270553017** | **0.4810028155606568** | **0.39706528684272135** |
| 7 | **C=3000** | **0.8956744694334918** | **0.12322756620227582** | **0.6370064223754035** | **0.5913630209426107** |

**SVM Regression using Hyper Tuning Parameters**

**SVR(C=3000, kernel='linear') Model has the Highest Accuracy**