**MACHINE LEARNING REGRESSION**

**INSURANCE CHARGES PREDICTION**

**SUPPORT VECTOR MACHINE REGRESSION**

The Decision Tree Regression best

**R2-Score Value** = **(POLY,C=0.1,AUTO) =(0.8629)**

Below the table using a all parameter Kernel,C and Gamma use R2-Score Value

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S.NO** | **KERNEL** | **C** | **GAMMA** | **R2-SCORE** |
| 1 | linear | 0.01 | auto | -0.0797 |
| 2 | linear | 10 | Scale | -0.0016 |
| 3 | linear | 100 | Scale | 0.5432 |
| 4 | linear | 1000 | scale | 0.6340 |
| 5 | linear | 2000 | scale | 0.6893 |
| 6 | linear | 10 | auto | -0.0016 |
| 7 | linear | 100 | auto | 0.5432 |
| 8 | linear | 2000 | auto | 0.6893 |
| 9 | poly | 0.01 | scale | -0.0893 |
| 10 | poly | 10 | scale | -0.0931 |
| 11 | poly | 100 | scale | -0.0997 |
| 12 | poly | 0.1 | auto | 0.8629 |
| 13 | poly | 0.01 | auto | 0.8377 |
| 14 | rbf | 2000 | auto | -0.1077 |
| 15 | rbf | 2000 | scale | 0.00028 |
| 16 | sigmoid | 2000 | auto | -5.616 |
| 17 | sigmoid | 0.01 | auto | 0.0897 |
| 18 | sigmoid | 0.01 | scale | -5.6164 |
| 19 | Linear(standard) | 2000 | scale | 0.7440 |

The Decision Tree Regression best

**R2-Score Value** = **(POLY,C=0.1,AUTO) =(0.8629)**