**R2 value comparison between various models**

**Multiple Linear Regression:**

|  |  |
| --- | --- |
| **Model** | **R2 value** |
| Multiple Linear regression | 0.88 |

**Support Vector Machine:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **SNO** | **C**  **PARAMETER** | **LINEAR**  **R2value** | **POLY**  **R2value** | **RBF**  **R2 value** | **SIGMOD**  **R2 value** |
| 1 | Default | 0.92 | -0.58 | -0.59 | -0.59 |
| 2 | 5 | 0.75 | -0.57 | -0.58 | -0.59 |
| 3 | 10 | -36.78 | -0.56 | -0.58 | -0.59 |
| 4 | 50 | -33.46 | -0.69 | -0.56 | -0.59 |
| 5 | 100 | -231.05 | -0.28 | -0.54 | -0.59 |
| 6 | 1000 | -4325 | -0.13 | -0.46 | -0.59 |

\*Default C value=1

**DecisionTree:**

|  |  |  |  |
| --- | --- | --- | --- |
| **SN0** | **CRITERION** | **SPLITTER** | **R2value** |
| 1 | Default | Default | 0.98 |
| 2 | Squared\_error | best | 0.98 |
| 3 | Squared\_error | Random | 0.94 |
| 4 | friedman\_mse | best | 0.98 |
| 5 | friedman\_mse | Random | 0.989 |
| 6 | absolute\_error | best | 0.985 |
| 7 | absolute\_error | Random | 0.988 |
| 8 | poisson | best | 0.989 |
| 9 | poisson | Random | 0.957 |