|  |  |  |
| --- | --- | --- |
|  | Hyper Tuning Parameter |  |
| Criterion | Splitter | R\_Score value |
| squared\_error | Best | 93% |
| friedman\_mse | Best | 92% |
| absolute\_error | Best | 94% |
| poisson | Best | 94% |
| squared\_error | Random | 80% |
| friedman\_mse | Random | 72% |
| absolute\_error | Random | 94% |
| poisson | Random | 88% |

**Decision Tree**

**SVR(Support Vector Machine)**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S.No** | **Hyper parameter** | **Linear***(r Value)* | **RBF(Non Linear)(rValue)** | **Poly(rValue)** | **Sigmoid(r Value)** |
| **1** | C10 | -0.0396 | -0.0568 | -0.0536 | -0.0547 |
| **2** | C100 | 0.106 | -0.0507 | -0.0198 | -0.0304 |
| **3** | C500 | 0.592 | -0.0243 | 0.1146 | 0.0705 |
| **4** | C1000 | 0.780 | 0.00676 | 0.2661 | 0.1850 |
| **5** | C2000 | 0.876 | 0.0675 | 0.4810 | 0.3970 |
| **6** | C3000 | 0.895 | 0.1232 | 0.6370 | 0.5913 |

**Random Forest - Regressor**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S.No** | **n\_estimators** | **Criterion** | **Max Features** | **(r\_2 Value)** |
| **1** | 50 | squared\_error | None | 0.912 |
| **2** | 100 | squared\_error | sqrt | 0.756 |
| **3** | 1000 | squared\_error | log2 | 0.817 |
| **4** | 50 | Absolute error | None | 0.935 |
| **5** | 100 | Absolute error | sqrt | 0.820 |
| **6** | 1000 | Absolute error | log2 | 0.820 |
| **7** | 50 | friedman\_mse | None | 0.940 |
| **8** | 100 | friedman\_mse | sqrt | 0.791 |
| **9** | 1000 | friedman\_mse | log2 | 0.802 |
| **10** | 50 | poisson | None | 0.941 |
| **11** | 100 | poisson | sqrt | 0.812 |
| **12** | 1000 | poisson | log2 | 0.771 |