**MACHINE LEARNING REGRESSION**

**50\_STRATUP**

**RANDOM FOREST REGRESSION**

1.The Decision Tree Regression best **R2-Score** Vaule =**(mean,auto,best)=(0.9168)**

2.And Also, The Decision Tree Regression best **R2-Score** Vaule = **bootstrap=False=(0.9516)**

|  |  |  |  |
| --- | --- | --- | --- |
| **S.NO** | **CRITERION** | **MAX\_FEATURES** | **R2-SCORE** |
| 1 | mse | sqrt | 0.9168 |
| 2 | mse | log2 | 0.6630 |
| 3 | mae | sqrt | 0.8076 |
| 4 | mae | log2 | 0.8674 |
| 5 | friedman\_mse | sqrt | 0.7372 |
| 6 | friedman\_mse | log2 | 0.7900 |
|  |  |  |  |

**R2-SCORE**

1)n\_estimators=100 0.9341

2)max\_depth=1 0.7528

3)max\_depth=2 0.9186

4)min\_impurity\_decrease=0 0.9208

5)bootstrap=True 0.9323

6)bootstrap=False 0.9516