**MACHINE LEARNING REGRESSION**

**INSURANCE CHARGES PREDICTION**

**RANDOM FOREST REGRESSION**

1.The Decision Tree Regression best **R2-Score** Vaule =**(mae,sqrt)= (0.8639)**

2.And Also, The Decision Tree Regression best

**R2-Score** Vaule = **max\_depth=( 0.8668)**

|  |  |  |  |
| --- | --- | --- | --- |
| **S.NO** | **CRITERION** | **MAX\_FEATURES** | **R2-SCORE** |
| 1 | mse | sqrt | 0.8405 |
| 2 | mse | log2 | 0.8452 |
| 3 | mae | sqrt | 0.8639 |
| 4 | mae | log2 | 0.8539 |
| 5 | friedman\_mse | sqrt | 0.8594 |
| 6 | friedman\_mse | log2 | 0.8499 |
|  |  |  |  |

**R2-SCORE**

1)n\_estimators=100 0.8561

2)max\_depth=1 0.6699

3)max\_depth=2 0.8668

4)min\_impurity\_decrease=0 0.8299

5)bootstrap=True 0.8428

6)bootstrap=False 0.7009