|  |  |  |  |
| --- | --- | --- | --- |
| **Si.no** | **criterion** | **Tuning parameters** | **R value** |
| **1.** | squared\_error | n\_estimators=50 | **0.94** |
| **2.** | squared\_error | n\_estimators=100 | **0.94** |
| **3.** | absolute\_error | n\_estimators=100 | **0.93** |
| **4.** | absolute\_error | n\_estimators=50 | **0.92** |
| **5.** | friedman\_mse | n\_estimators=100 | **0.94** |
| **6.** | friedman\_mse | n\_estimators=50 | **0.93** |
| **7.** | poisson | n\_estimators=100 | **0.93** |
| **8.** | poisson | n\_estimators=50 | **0.93** |
| **9.** | poisson | max\_depth=None | **0.94** |
| **10.** | squared\_error | max\_depth=None | **0.93** |
| **11.** | absolute\_error | max\_depth=None | **0.95** |
| **12.** | friedman\_mse | max\_depth=None | **0.93** |
| **13.** | absolute\_error | Random\_state=none | **0.94** |
| **14.** | squared\_error | Random\_state=none | **0.94** |
| **15.** | friedman\_mse | Random\_state=none | **0.93** |
| **16.** | poisson | Random\_state=none | **0.93** |
| **17.** | friedman\_mse | bootstrap=True | **0.94** |
| **18.** | poisson | bootstrap=True | **0.92** |
| **19.** | squared\_error | bootstrap=True | **0.94** |
| **20.** | absolute\_error | bootstrap=True | **0.94** |

**Find the best model machine learning model**

**1.RANDOM FOREST:**