|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| S.NO | CRITERION | SPLITTER | MAX-FETURES | R-SCORE |
| 1 | Squared\_error | best | sqrt | 0.8357108719998553 |
| 2 | Squared\_error | best | Log2 | 0.6258365730339853 |
| 3 | Squared\_error | best | none | 0.9329983955763534 |
| 4 | Squared\_error | random | sqrt | 0.7096717558877738 |
| 5 | Squared\_error | random | Log2 | 0.5656235621473292 |
| 6 | Squared\_error | random | none | 0.9137409190274686 |
| 7 | Friedman\_mse | best | sqrt | -0.71318325586717 |
| 8 | Friedman\_mse | best | Log2 | 0.6937967778608248 |
| 9 | Friedman\_mse | best | none | 0.8930106646150924 |
| 10 | Friedman\_mse | random | sqrt | 0.37546844094013887 |
| 11 | Friedman\_mse | random | Log2 | -0.330949983084475 |
| 12 | Friedman\_mse | random | none | 0.7046141888227225 |
| 13 | Absolute error | best | sqrt | -0.440086904635508 |
| 14 | Absolute error | best | Log2 | 0.6859090316404863 |
| 15 | Absolute error | best | none | 0.953804059373612 |
| 16 | Absolute error | random | sqrt | 0.8665700021302921 |
| 17 | Absolute error | random | Log2 | 0.28780926052769595 |
| 18 | Absolute error | random | none | 0.9511434805286295 |
| 19 | Poisson | best | sqrt | 0.7215321314802614 |
| 20 | Poisson | best | Log2 | -1.045581051038646 |
| 21 | Poisson | best | none | 0.9148532120639855 |
| 22 | Poisson | random | sqrt | 0.6396479821028015 |
| 23 | Poisson | random | Log2 | 0.29864526712235095 |
| 24 | Poisson | random | none | 0.9222919586803436 |

* In the Decision Tree Regression use R^2 value as (criterion='absolute\_error',splitter='best', max\_features=None)= 0.95380405 , is the best model.