Assignment: Decision tree Regression- Hyper parameters with R values

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| Sl.N0 | Criteriaon | Max\_features | Splitter | R\_Value |  |  |  |
| 1 | Squared\_error | Sqrt | best | 0.6795533641359489 |  |  |  |
| 2 | Squared\_error | Sqrt | Random | 0.6973832909326495 |  |  |  |
| 3 | Squared\_error | auto | best | 0.6623132903803661 |  |  |  |
| 4 | Squared\_error | auto | Random | 0.6980933984406023 |  |  |  |
| 5 | Squared\_error | log2 | best | 0.6398772872609122 |  |  |  |
| 6 | Squared\_error | log2 | Random | 0.6738577749631401 |  |  |  |
| 7 | friedman\_mse | Sqrt | best | 0.7149923349432595 |  |  |  |
| 8 | friedman\_mse | Sqrt | Random | 0.7076350768998017 |  |  |  |
| 9 | friedman\_mse | auto | best | 0.658603507799159 |  |  |  |
| 10 | friedman\_mse | auto | Random | 0.7193753715117888 |  |  |  |
| 11 | friedman\_mse | log2 | best | 0.6795796589117227 |  |  |  |
| 12 | friedman\_mse | log2 | Random | 0.7003518431318947 |  |  |  |
| 13 | poisson | Sqrt | best | 0.6370151046264717 |  |  |  |
| 14 | poisson | Sqrt | Random | 0.5985342184884453 |  |  |  |
| 15 | poisson | log2 | best | 0.6597147233352301 |  |  |  |
| 16 | poisson | log2 | Random | 0.6302975320496209 | 9 |  |  |
| 17 | poisson | auto | best | 0.6568278169253381 |  |  |  |
| 18 | poisso | auto | random | 0.7189475453842333 |  |  |  |
| 19 | absolute\_error | sqrt | best | 0.7245625680549648 | Best |  |  |
| 20 | absolute\_error | sqrt | Random | 0.655196143279222 |  |  |  |
| 21 | absolute\_error | log2 | best | 0.6968008978205906 |  |  |  |
| 22 | absolute\_error | log2 | random | 0.5737609430307047 |  |  |  |
| 23 | absolute\_error | auto | best | 0.6680274089885903 |  |  |  |
| 24 | absolute\_error | auto | random | 0.7241032787882982 |  |  |  |
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