Machine Learning Algorithms:

Decision Tree Algorithm

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| S.No | Criterion | splitter | max\_features | R\_score |
| 1 | Squared\_error | random | sqrt | 0.5912 |
| 2 | Squared\_error | random | log2 | 0.7710 |
| 3 | Squared\_error | best | sqrt | 0.8541 |
| 4 | Squared\_error | best | log2 | 0.8230 |
| 5 | Friedman\_mse | random | sqrt | 0.8515 |
| 6 | Friedman\_mse | random | log2 | 0.6210 |
| 7 | Friedman\_mse | best | sqrt | 0.9140 |
| 8 | Friedman\_mse | best | log2 | 0.6974 |
| 9 | Absolute\_error | random | sqrt | 0.8349 |
| 10 | Absolute\_error | random | log2 | 0.7497 |
| 11 | Absolute\_error | best | sqrt | 0.4357 |
| 12 | Absolute\_error | best | log2 | 0.7983 |
| 13 | poisson | random | sqrt | 0.6094 |
| 14 | poisson | random | log2 | 0.3030 |
| 15 | poisson | best | sqrt | 0.7706 |
| 16 | poisson | best | log2 | 0.7608 |

Best saved hyper tuning parameter :

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 7 | Friedman\_mse | best | sqrt | 0.9140 |