|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sl.No.** | **Regressor Type (criterion)** | **Splitter type** | **Depth\_Max** | **R^2 score** |
| 1 | Squared error | best | None | 0.92 |
| ***2*** | ***Squared error*** | random | None | 0.96 |
| 3 | ***absolute\_error*** | best | None | 0.94 |
| 4 | ***absolute\_error*** | random | None | 0.78 |
| 5 | ***poisson*** | best | None | 0.74 |
| 6 | ***poisson*** | random | None | 0.58 |
| 7 | ***friedman\_mse*** | best | None | 0.94 |
| 8 | ***friedman\_mse*** | random | None | 0.90 |

**Decision Tree Regressor**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sl.No.** | **Regressor Type (criterion)** | **Splitter type** | **Depth\_Max** | **R^2 score** |
| 1 | Squared error | best | None | 0.92 |
| ***2*** | ***Squared error*** | random | None | 0.96 |
| 3 | ***absolute\_error*** | best | None | 0.94 |
| 4 | ***absolute\_error*** | random | None | 0.78 |
| 5 | ***poisson*** | best | None | 0.74 |
| 6 | ***poisson*** | random | None | 0.58 |
| 7 | ***friedman\_mse*** | best | None | 0.94 |
| 8 | ***friedman\_mse*** | random | None | 0.90 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sl.No.** | **Regressor Type (criterion)** | **Splitter type** | **Depth\_Max** | **R^2 score** |
| 1 | Squared error | best | None/10 | 0.92/0.89 |
| ***2*** | ***Squared error*** | random | None/100 | 0.96/0.94 |
| 3 | ***absolute\_error*** | best | None/100 | 0.94/0.93 |
| 4 | ***absolute\_error*** | random | None/100 | 0.78/0.93 |
| 5 | ***poisson*** | best | None/100 | 0.74/0.69 |
| 6 | ***poisson*** | random | None/100 | 0.58/0.20 |
| 7 | ***friedman\_mse*** | best | None/50 | 0.94/0.92 |
| 8 | ***friedman\_mse*** | random | None/50 | 0.90/0.88 |

**Forest Tree Regressor**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sl.no** | ***n\_estimators*** | ***criterion*** | ***max\_depth(None/int)*** | **R^2 score** |
| 1 | 100 | ***friedman\_mse*** | None/100 | 0.93/0.94 |
| 2 | 50 | ***friedman\_mse*** | None/10 | 0.93/0.94 |
| 3 | 10 | ***friedman\_mse*** | None/10 | 0.92/0.95 |
| 4 | 100 | ***poisson*** | None/100 | 0.79/0.78 |
| 5 | 50 | ***poisson*** | None/10 | 0.81/0.81 |
| 6 | 10 | ***poisson*** | None/10 | 0.67/0.73 |
| 7 | 100 | ***squared\_error*** | None/10 | 0.93/0.93 |
| 8 | 50 | ***squared\_error*** | None/10 | 0.940 /0.95 |
| 9 | 10 | ***squared\_error*** | None/10 | 0.94/0.93 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sl.No.** | **Regressor Type (criterion)** | **Splitter type** | **Depth\_Max** | **R^2 score** |
| 1 | Squared error | best | None | 0.92 |
| ***2*** | ***Squared error*** | random | None | 0.96 |
| 3 | ***absolute\_error*** | best | None | 0.94 |
| 4 | ***absolute\_error*** | random | None | 0.78 |
| 5 | ***poisson*** | best | None | 0.74 |
| 6 | ***poisson*** | random | None | 0.58 |
| 7 | ***friedman\_mse*** | best | None | 0.94 |
| 8 | ***friedman\_mse*** | random | None | 0.90 |