|  |  |  |  |
| --- | --- | --- | --- |
| **Criterion** | **Splitter** | **Max features** | **R\_score** |
| Friedman\_mse | best | None | 0.9218901897562434 |
| Friedman\_mse | Random | None | 0.9158022663606257 |
| squared\_error | best | None | 0.903597162669487 |
| squared\_error | random | None | 0.5935009428050697 |
| absolute\_error | best | None | 0.925016234116503 |
| absolute\_error | random | None | 0.8880652533688742 |
| poisson | best | None | 0.9344355938207466 |
| poisson | random | None | 0.7223447557271802 |
| Friedman\_mse | best | Sqrt | 0.90 |
| Friedman\_mse | Random | Sqrt | 0.75 |
| squared\_error | best | Sqrt | 0.41 |
| squared\_error | random | Sqrt | 0.88 |
| absolute\_error | best | Sqrt | 0.83 |
| absolute\_error | random | Sqrt | 0.57 |
| poisson | best | Sqrt | -0.234 |
| poisson | random | Sqrt | -0.12 |
| Friedman\_mse | best | Log2 | 0.59 |
| Friedman\_mse | Random | Log2 | 0.60 |
| squared\_error | best | Log2 | 0.54 |
| squared\_error | random | Log2 | 0.53 |
| absolute\_error | best | Log2 | 0.68 |
| absolute\_error | random | Log2 | 0.88 |
| poisson | best | Log2 | 0.68 |
| poisson | random | Log2 | 0.08 |

Hyperparameter combination of “poisson – best – none” is the providing the highest value of 0.93