

Decision Tree Assignment

Decision Tree:

S.NO	Criterion	Splitter	Max_Feature	R_Score
1	Squared_error	Best		0.91
2	Squared_error	Random		0.78
3	Friedman_mse	Best		0.91
4	Friedman_mse	Random		0.72
5	Absolute_error	Best		0.92
6	Absolute_error	Random		0.82
7	Poisson	Best		0.91
8	Poisson	Random		0.91
9	Squared_error	Best	Sqrt	0.79
10	Squared_error	Random	Sqrt	0.0062
11	Friedman_mse	Best	Sqrt	0.79
12	Friedman_mse	Random	Sqrt	0.89
13	Absolute_error	Best	Sqrt	0.66
14	Absolute_error	Random	Sqrt	0.35
15	Poisson	Best	Sqrt	0.27
16	Poisson	Random	Sqrt	0.61
17	Squared_error	Best	Log2	0.58
18	Squared_error	Random	Log2	0.29
19	Friedman_mse	Best	Log2	0.56
20	Friedman_mse	Random	Log2	0.70
21	Absolute_error	Best	Log2	0.75
22	Absolute_error	Random	Log2	-0.065
23	Poisson	Best	Log2	0.26
24	Poisson	Random	Log2	-0.063

The Decision Tree Regression use **R2value**(Best,,random) = **0.92**

