

### DECISION TREE REGRESSION (11-04-2024)

S.no	criterion	max features	splitter	r2 value
1	squared_error	None	best	0.9102
2	squared_error	None	random	0.8178
3	squared_error	sqrt	best	0.7424
4	squared_error	sqrt	random	0.4742
5	squared_error	log2	best	0.2342
6	squared_error	log2	random	-0.0837
7	friedman_mse	None	best	0.9307
8	friedman_mse	None	random	0.6072
9	friedman_mse	sqrt	best	0.7505
10	friedman_mse	sqrt	random	-0.0253
11	friedman_mse	log2	best	0.7548
12	friedman_mse	log2	random	0.4947
13	absolute_error	None	best	0.9501
14	absolute_error	None	random	0.8405
15	absolute_error	sqrt	best	0.7995
16	absolute_error	sqrt	random	0.7363
17	absolute_error	log2	best	0.5851
18	absolute_error	log2	random	0.7092
19	poisson	None	best	0.9144
20	poisson	None	random	0.7565
21	poisson	sqrt	best	0.8604
22	poisson	sqrt	random	0.711
23	poisson	log2	best	0.4185
24	poisson	log2	random	-0.524

Decision Tree Regression S.no :- 13 is the best value  $r^2 = 0.9501$