

1.Decision Tree

s.no	criterion	max_features	splitter	R2_value
1	mse	auto	best	0.840235
2	mse	auto	random	0.840060
3	mse	sqrt	best	0.625619
4	mse	sqrt	random	-0.342725
5	mse	log2	best	0.180800
6	mse	log2	random	0.467018
7	mae	auto	best	0.747947
8	mae	auto	random	0.873233
9	mae	sqrt	best	0.764688
10	mae	sqrt	random	0.164200
11	mae	log2	best	-0.102799
12	mae	log2	random	0.047280
13	Friedman_mse	auto	best	0.838694
14	Friedman_mse	auto	random	0.817707
15	Friedman_mse	sqrt	best	0.462427
16	Friedman_mse	sqrt	random	0.439689
17	Friedman_mse	log2	best	0.514785
18	Friedman_mse	log2	random	0.260347

The Decision Tree Regression Use r2_Value= 0.873233