

Hyper Tuning Assignment

The Decision Tree Regressor R2_Score

(Dataset=50_Startups)

SI:NO:	Criterion	Max Features	Splitter	R_Score
1	mse	auto	best	0.93
2	mse	auto	random	0.89
3	mse	sqrt	best	0.38
4	mse	sqrt	random	-1.07
5	mse	log2	best	0.71
6	mse	log2	random	0.48
7	friedman_mse	auto	best	0.941
8	friedman_mse	auto	random	0.92
9	friedman_mse	sqrt	best	-0.04
10	friedman_mse	sqrt	random	0.87
11	friedman_mse	log2	best	0.43
12	friedman_mse	log2	random	0.04
13	mae	auto	best	0.940
14	mae	auto	random	0.84
15	mae	sqrt	best	0.66
16	mae	sqrt	random	0.45
17	mae	log2	best	0.08
18	mae	log2	random	0.42

The bests R2score is=0.94

DecisionTreeRegressor(criterion='friedman_mse',max_features='auto',splitter='best')