

To find r2_score using Machine Learning Regression Method

1.Support vector machine

S.No	HYPER PARAMETER	LINEAR	RBF	POLY	SIGMOID
1	C10	-0.039644	-0.056807	-0.0536672	-0.05471958
2	C100	0.1064681	-0.050726	-0.0198021	-0.0304535
3	C500	0.5928977	-0.024323	0.1146848	0.0705721
4	C1000	0.7802839	0.0067683	0.2661637	0.1850686
5	C2000	0.8767721	0.0675155	0.4810028	0.3970652
6	C3000	0.8956744	0.1232275	0.6370064	0.5913630

SUPPORT VECTOR MACHINE :r2_value(linear and hyper parameter(C3000))=0.8956744

2.DECISION TREE

S.NO	CRITERION	SPLITTER	R2_SCORE
1	friedman_mse	best	0.926587
2	friedman_mse	random	0.760686
3	mse	best	0.898780
4	mse	random	0.715754
5	mae	best	0.958789
6	mae	random	0.893114

Decision Tree: r2_value(Criterion:mae) =0.958789