

Multiple Linear Regression -Assignment Regression

1.DecisionTree Regression

S.no	Criterion	Splitter	R value
1	Friedmen	Best	0.90
2	Squred Error	Best	0.91
3	Friedmen	Random	0.92
4	Friedmen _mse	Best	0.91
5	Friedmen _mse	Random	0.91
6	poisson	Best	0.93
7	poisson	Random	0.74

2.Support Vector Machine(SVM)

S.No	HyperParameter	Linear	RBF(non-linear)	Poly	Sigmoid
1	C10	0.0480	0.0480	0.027	0.0193
2	C100	0.06162	0.2913	0.6040	0.5056
3	C500	0.6803	0.6397	0.815	0.4638
4	C1000	0.7594	0.7594	0.8519	0.1824
5	C2000	0.7613	0.8460	0.8573	-0.5786
6	C3000	0.7612	0.8609	0.8577	-2.0118

3. RandomForest Regression

S.No	Criterion	N-Estimators	R-value
1	mse	10	0.8516
2	mse	50	0.8601
3	mse	100	0.85246
4	mse	500	0.85175

