

TO FIND THE MACHINE LEARNING REGRESSION METHOD USING IN R2 VALUE

1. Multiple linear regression (r2 value=0.935)

2. support vector machine:

S.No	Hyper parameter	Precomputed (r value)	Poly (r value)	Sigmoid (r value)	Rbf (non linear r value)
1	C10	Not response for this dataset	-0.053	-0.054	-0.056
2	C100		-0.019	-0.030	-0.050
3	C500		0.114	0.070	-0.024
4	C1000		0.266	0.185	0.006
5	C2000		0.481	0.397	0.067
6	C3000		0.637	0.591	0.123

Decision Tree:

S.No	Criterion	Splitter	R value
1	mse	best	0.895
2	squared_error	best	0.930
3	friedman_mse	best	0.907
4	friedman_mse	random	0.869
5	absolute_error	random	'absolute_error' is only supported in scikit-learn >= 1.0
6	poisson	This criterion is supported only in HistGradientBoostingRegressor , not DecisionTreeRegressor	'poisson' is not a valid criterion for DecisionTreeRegressor