TO find the machine learning regression method using r2 value

1.Multiple Linear Regression (R2 value)=1.0

.support Vector Machine:

S.No	HYPER PARAMETER	LINEAR(r value)	POLY(r value)	SIGMOD(r value)	rbf
1	*C10*	0.999999	0.11977	0.999	0.11977
2	C100	0.9999	0.11977		0.11977
3	C500	0.99999	0.11977		0.11977
4	C1000	0.99999	0.11977		0.11977
5	C2000	0.9999	0.11977		0.11977
6	C3000	0.9999	0.11977		0.11977
7	*C7000*	0.9999	0.11977		0.11977

The SVM Regression use R2 value(poly (Rbf) and hyper parameter(c7000)=0.11977

3.Decision Tree

SL.NO	CRITERION	MAX FEATURES	SPLITTER	R VALUE
1	Friedman_Mse	Auto	random	0.6850377
2	Squared_error	Sqrt	best	0.6850377
3	Poisson	Log2	Random	0.6850377
4	Mae	Auto	random	0.6850377
5	Friedman_mse___	Best	Random	0.6850377

The Decision tree Regression use R2 value (mae, mse,auto,best,random)=0.68503

Random Forest

SL.NO	CRITERION	MAX FEATURES	N_ESTIMATORS	R VALUE
1	Friedman_Mse	Auto	1000	0.8552594
2	Squared_error	Sqrt	10	0.832943710
3	Poisson	Log2	100	0.839243710
4	Mae	Auto	50	0.83924371
5	Friedman_mse__	Best	500	0.83924371
6	Absolute_error	Random	2000	0.83924371

Random forest Regression use R2 value(mae,mse,auto,best,log2)=0.832924371