To find following the machine learning regression method using in r2 value

1. Multiple Linear Regression:

R2 Value = 1.0

2. Support Vector Machine:

S.NO	Hyper	Linear	RBF(Non-Linear)	Poly	Sigmoid
	Parameter	(r value)	(r value)	(r value)	(r value)
1	C10	-0.0047	-0.0068	-0.0068	-0.0066
2	C100	0.0146	-0.0057	-0.0054	-0.0042
3	C500	0.0987	-0.0009	0.0006	0.0065
4	C1000	0.1983	0.0051	0.0081	0.0200
5	C2000	0.3793	0.0171	0.0230	0.0466
6	C3000	0.5358	0.0290	0.0378	0.0728

The **SVM Regression** use R2 value (Linear and hyper parameter(C3000)) = 0.5358

3. Decision Tree:

S.NO	CRITERION	MAX FEATURES	SPLITTER	R VALUE
1	squared_error	Sqrt	Best	0.9814
2	squared_error	log2	random	0.9688
3	friedman_mse	Sqrt	Best	0.9716
4	friedman_mse	log2	random	0.9744
5	absolute_error	Sqrt	Best	0.9763
6	absolute_error	log2	Random	0.9763
7	poisson	Sqrt	Best	0.9735
8	poisson	log2	random	0.9693
9	squared_error	Sqrt	random	0.9619
10	squared_error	log2	best	0.9735
11	friedman_mse	Log2	Best	0.9721
12	friedman_mse	Sqrt	random	0.9786
13	absolute_error	Log2	Best	0.9874
14	absolute_error	Sqrt	Random	0.9712
15	poisson	Log2	Best	0.9679
16	poisson	Sqrt	random	0.9744
17				
18				

The Decision tree Regression use R2 value (absolute error, log2, best) = 0.9874