Finding the best working machine learning regression method using R^2 value

1. **Multiple Linear Regression R^2 value =** `0.9177`
2. **Support Vector Machine**

#	Hyper parameter(c=)	R^2 value(kernel=)			
		Linear	**RBF**	**Poly**	**Sigmoid**
1	10	0.0194	0.0006	0.0017	0.0028
2	100	0.1894	0.0119	0.0233	0.0332
3	500	0.6861	0.0630	0.1150	0.1634
4	1000	0.8583	0.1229	0.2213	0.2957
5	2000	0.9092	0.2228	0.3777	0.5081
6	`3000`	`0.9181`	0.3206	0.5012	0.6840

3. **Decision Tree**

#	Criterion	Max Features	Splitter	R^2 value
1	squared_error	None	best	0.4194
2			random	-0.42669
3		Sqrt	best	-3.0810
4			random	`0.7038`
5		Log2	best	-1.2971
6			random	-2.1923
7	absolute_error	None	best	0.1610
8			random	-0.3504
9		Sqrt	best	-4.2129
10			random	-1.4782
11		Log2	best	0.1756
12			random	-1.3543
13	friedman_mse	None	best	0.4272
14			random	-0.42669
15		Sqrt	best	-0.9251
16			random	-3.2651
17		Log2	best	0.4516
18			random	0.1610