The machine Learning R^2 value for Different regression method.

1.MLR (R^2 value) = 0.935

2.Support Vector Machine:

S.No	Hyper Tuning parameter	linear	rbf	poly	sigmoid
1	**without Standardized**	0.895	-0.057	-0.057	-0.057
2	**C 0.01**	-0.05	-0.057	-0.057	-0.057
3	**C 1.0**	-0.055	-0.057	-0.057	-0.057
4	**C10**	-0.039	0.568	-0.053	-0.054
5	**C100**	-0.106	-0.507	-0.019	-0.030

SVM linear (R^2 value)= 0.895

3. Decision Tree:

S.No	creterion	spleter	r_score
1	Squared_error	best	0.928
2	Squared_error	random	0.911
3	friedman_man	best	0.901
4	friedman_man	random	0.899
5	absolute_error	best	0.940
6	absolute_error	random	0.687
7	poisson	best	0.722
8	poisson	random	0.905

S.No	creterion	Max feature	spleter	r_score
1	Squared_error	auto	best	0.925
2	Squared_error	sqrt	best	0.819
3	Squared_error	log2	best	-0.985
4	Squared_error	auto	random	0.858
5	Squared_error	sqrt	random	0.566
6	Squared_error	log2	random	0.416
7	friedman_man	auto	best	0.913
8	friedman_man	sqrt	best	0.924
9	friedman_man	log2	best	0.318
10	friedman_man	auto	random	0.929
11	friedman_man	sqrt	random	0.330
12	friedman_man	log2	random	0.79
13	absolute_error	auto	best	0.949
14	absolute_error	sqrt	best	0.609
15	absolute_error	log2	best	-0.949
16	absolute_error	auto	random	0.866
17	absolute_error	sqrt	random	0.88

18	absolute_error	log2	random	0.429
19	poisson	auto	best	0.726
20	poisson	sqrt	best	0.59
21	poisson	log2	best	0.374
22	poisson	auto	random	0.898
23	poisson	sqrt	random	-0.129
24	poisson	log2	random	0.305

DT (absolute_error, auto,best) **(R^2 value)= 0.895**