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

1.Multiple Linear Regression (R2 value): 0.93586
2.Support Vector Machine

S.NO	HYPER PARAMETER	LINEAR	RBF	POLY	SIGMOID
1.	C=10	-0.03964	-0.05680	-0.05366	-0.05471
2.	C=100	0.10646	-0.05072	-0.01980	-0.03045
3.	C=500	0.59289	-0.02432	0.11468	0.07057
4.	C=1000	0.78028	0.00676	0.26616	0.26616
5.	C=2000	0.87677	0.06751	0.48100	0.39706
6	C=3000	0.89567	0.12322	0.63700	0.59136

The svm regression (r2 value is 0.89567, hyper parameter=3000, linear)
3.Decision Tree

S.NO	Criterion	Splitter	Max feature	R value
1.	Squared Error	best	None	0.92261
2	Squared Error	best	Sqrt	0.85594
3	Squared Error	best	Log2	0.52954
4	Squared Error	random	None	0.87017
5	Squared Error	random	Sqrt	0.04592
6	Squared Error	random	Log2	0.37280
7	Friedman mse	best	None	0.91481
8	Friedman mse	best	Sqrt	0.76699
9	Friedman mse	best	Log2	0.76919
10	Friedman mse	random	None	0.90770
12	Friedman mse	random	sqrt	0.70485
13	Friedman mse	random	Log2	-0.13960
14	Absolute Error	best	None	0.95337

15	Absolute Error	best	sqrt	0.71378
16	Absolute Error	best	Log2	0.57123
17	Absolute Error	random	None	0.92084
18	Absolute Error	random	sqrt	-0.40680
19	Absolute Error	random	Log2	0.70456
20	Poisson	best	None	0.92544
21	Poisson	best	Sqrt	0.12897
22	Poisson	best	Log2	0.58682
23	Poisson	random	None	0.78785
24	Poisson	random	Sqrt	-0.08203
25	Poisson	random	Log2	-0.69373

The Decision Tree Regression use R2 value: 0.95337(Absolute Error, best, None)