

## SVR :

S.No	linear(r2_score)	poly(r2_score)	rbf(r2_score)	sigmoid(r2_score)	c
1	-0.057468	-0.05748	-0.05748	-0.05748	0.01
2	-0.0573	-0.05744	-0.05747	-0.05745	0.1
3	-0.03964	-0.05366	-0.0568	-0.05471	10
4	0.10646	-0.0198	-0.05072	-0.03045	100
5	0.78028	0.26616	0.00676	0.18506	1000
6	0.87677	0.481	0.06751	0.39706	2000
7	0.89567	0.637	0.12322	0.59136	3000
8	0.89723	0.73263	0.17238	0.62823	4000

## Comparing with the two models:

Decision tree algorithm performed well based on r2\_score value.

## Decision TreeRegressor:

S.No	criterion	splitter	max_feature	r2_score
1	squared_error	best	none	0.91351
2	squared_error	random	none	0.86089
3	squared_error	best	sqrt	0.40966
4	squared_error	random	sqrt	-0.97738
5	squared_error	best	log2	-0.12883
6	squared_error	random	log2	0.76943
7	squared_error	best	auto	0.92796
8	squared_error	random	auto	0.6196
9	friedman_mse	best	none	0.90728
10	friedman_mse	random	none	0.94604
11	friedman_mse	best	sqrt	0.11106
12	friedman_mse	random	sqrt	0.42933
13	friedman_mse	best	log2	0.7362
14	friedman_mse	random	log2	0.5456
15	friedman_mse	best	auto	0.90049
16	friedman_mse	random	auto	0.67972
17	absolute_error	best	none	0.92931
18	absolute_error	random	none	0.93553
19	absolute_error	best	sqrt	-0.18333
20	absolute_error	random	sqrt	-0.06577
21	absolute_error	best	log2	-0.61114
22	absolute_error	random	log2	0.54214
23	absolute_error	best	auto	0.94455
24	absolute_error	random	auto	0.89431
25	poisson	best	none	0.67889
26	poisson	random	none	0.49191
27	poisson	best	sqrt	-0.56692
28	poisson	random	sqrt	0.7846
29	poisson	best	log2	0.42705
30	poisson	random	log2	0.00052
31	poisson	best	auto	0.72318
32	poisson	random	auto	0.13742