TO FIND R2VALUE BY USING THE FOLLOWING MACHINE LEARNING ALGORITHMS

1. MULTIPLE LINEAR REGRESSION (R2 value = 0.9358)

2. SUPPORT VECTOR MACHINE:

S.No	HYPER	LINEAR	RBF (NON	POLY	SIGMOID		
	PARAMETER	(r value)	LINEAR)	(r value)	(r value)		
			(r value)				
1	WITHOUT	0.8950	-0.05748	Executes	-0.05748		
	STANDARDIZATION			for long			
				time and			
				couldn't			
				find			
WITH STANDARDIZATION							
1	C10	-0.0396	-0.0568	-0.0536	-0.0547		
2	C100	0.1064	-0.0507	-0.0198	-0.0304		
3	C500	0.5928	-0.0243	0.1146	0.0705		
4	C1000	0.7802	0.0067	0.2661	0.1850		
		0.0767	0 0075	0 4010	0.0070		
5	C2000	0.8767	0.0675	0.4810	0.3970		
6	C3000	0.8956	0.1232	0.6370	0.5913		

The SVM Regression use R2 value (linear and hyper parameter (C3000))

3. DECISION TREE:

S.No	CRITERION	MAX FEATURES	SPLITTER	R VALUE
1	mse	auto	best	0.9059
2	mse	auto	random	0.9166
3	mse	sqrt	best	0.6103
4	mse	sqrt	random	0.0314
5	mse	log2	best	0.3619
6	mse	log2	random	0.1617
7	Mae	auto	best	0.9435
8	Mae	auto	random	0.8152

9	mae	sqrt	best	0.7295
10	mae	sqrt	random	0.1026
11	mae	log2	best	0.8497
12	mae	log2	random	0.4073
13	friedman_mse	auto	best	0.9173
14	friedman_mse	auto	random	0.9040
15	friedman_mse	sqrt	best	0.6903
16	friedman_mse	sqrt	random	0.2372
17	friedman_mse	log2	best	0.7395
18	friedman_mse	log2	random	0.4311

The Decision Tree Regression (Mae, auto, best) R2 value = 0.9435