

## ML- Regression Method -Values

### 1. Multiple Linear Regression:

**R<sup>2</sup> Value=0.935**

### 2. Decision Tree Checker:

SNO	Criterion	Max features	Splitter	Value
1	squared_error	None	Best	0.927
2	squared_error	None	Random	0.920
3	squared_error	Auto	Best	0.914
4	squared_error	Auto	Random	0.714
5	squared_error	Sqrt	Best	0.769
6	squared_error	Sqrt	Random	0.753
7	friedman_mse	None	Best	0.920
8	friedman_mse	None	Random	0.904
9	friedman_mse	Auto	Best	0.935
10	friedman_mse	Auto	Random	0.926
11	friedman_mse	Sqrt	Best	0.890
12	friedman_mse	Sqrt	Random	0.828
13	absolute_error	None	Best	0.949
14	absolute_error	None	Random	0.909
15	absolute_error	Auto	Best	0.947
16	absolute_error	Auto	Random	0.838
17	absolute_error	Sqrt	Best	0.721
18	absolute_error	Sqrt	Random	0.677
19	poisson	None	Best	0.702
20	poisson	None	Random	0.844
21	poisson	Auto	Best	0.754
22	poisson	Auto	Random	0.826
23	poisson	Sqrt	Best	0.615
24	poisson	Sqrt	Random	0.652

### 3. Support Vector Machine Checker:

SNO	Hyper Parameter	Linear (r value)	RBF(non linear value)	Poly (r value)	Sigmoid (r value)	Precomputed (r value)
1	C10	0.037	0.055	0.047	0.052	This parameter not working and not suitable for this model
2	C100	0.114	0.038	0.041	0.004	
3	C500	0.603	0.034	0.350	0.156	
4	C1000	0.803	0.108	0.561	0.352	
5	C2000	0.879	0.263	0.686	0.575	
6	C3000	0.908	0.359	0.758	0.607	