Consolidated R_Score Values for Insurance Data Set

Krishnaveni

MLR	Multiple Linear Regression
SVM	Support Vector Model
DT	Decision Tree
RF	Random Forest

Sr.No.	Algorithm	Dataset	Standardisation	C Parameter	Playable Parameter	R_Score	
1	MLR	insurance_pre.csv	No	NA	NA	0.789479	
1	SVM	insurance_pre.csv	No	100	kernal='linear', gamma='scale'	-0.111661	
2	SVM	insurance_pre.csv	No	100	kernal='linear', gamma='auto'	-0.111661	
3	SVM	insurance_pre.csv	No	100	kernal='poly', gamma='scale'	-0.064293	
4	SVM	insurance_pre.csv	No	100	kernal='poly', gamma='auto'	0.8654549	Took long time
5	SVM	insurance_pre.csv	No	100	kernal='rbf', gamma='scale'	-0.088427	
6	SVM	insurance_pre.csv	No	100	kernal='rbf', gamma='auto'	-0.089474	
7	SVM	insurance_pre.csv	No	100	kernal='sigmoid', gamma='scale'	-0.089941	
8	SVM	insurance_pre.csv	No	100	kernal='sigmoid', gamma='auto'	-0.089709	
9	SVM	insurance_pre.csv	No	100	kernal='precomputed', gamma='scale'	Not a square Matrix	
10	SVM	insurance_pre.csv	No	100	kernal='precomputed', gamma='auto'	Not a square Matrix	
9	DT	insurance_pre.csv	No	100	criterion="squared_error",splitter="best",max_features="auto"	0.7165749	
10	DT	insurance_pre.csv	No	100	criterion="squared_error",splitter="random",max_features="auto"	0.7375993	
11	DT	insurance_pre.csv	No	100	criterion="squared_error",splitter="best",max_features="sqrt"	0.721461	
12	DT	insurance_pre.csv	No	100	criterion="squared_error",splitter="random",max_features="sqrt"	0.7529157	
13	DT	insurance_pre.csv	No	100	criterion="squared_error",splitter="best",max_features="log2"	0.7433064	
14	DT	insurance_pre.csv	No	100	criterion="squared_error",splitter="random",max_features="log2"	0.5951156	
15	DT	insurance_pre.csv	No	100	criterion="friedman_mse",splitter="best",max_features="auto"	0.6891713	
16	DT	insurance_pre.csv	No	100	criterion="friedman_mse",splitter="random",max_features="auto"	0.7209783	
17	DT	insurance_pre.csv	No	100	criterion="friedman_mse",splitter="best",max_features="sqrt"	0.6563865	

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18	DT	insurance_pre.csv	No	100	criterion=“friedman_mse”,splitter="random",max_features="sqrt"	0.6362605	
19	DT	insurance_pre.csv	No	100	criterion=“friedman_mse”,splitter="best",max_features="log2"	0.7013077	
20	DT	insurance_pre.csv	No	100	criterion=“friedman_mse”,splitter="random",max_features="log2"	0.6546851	
21	DT	insurance_pre.csv	No	100	criterion=“absolute_error”,splitter="best",max_features="auto"	0.6647716	
22	DT	insurance_pre.csv	No	100	criterion=“absolute_error”,splitter="random",max_features="auto"	0.7437253	
23	DT	insurance_pre.csv	No	100	criterion=“absolute_error”,splitter="best",max_features="sqrt"	0.7031522	
24	DT	insurance_pre.csv	No	100	criterion=“absolute_error”,splitter="random",max_features="sqrt"	0.6267574	
25	DT	insurance_pre.csv	No	100	criterion=“absolute_error”,splitter="best",max_features="log2"	0.7235064	
26	DT	insurance_pre.csv	No	100	criterion=“absolute_error”,splitter="random",max_features="log2"	0.7337747	
27	DT	insurance_pre.csv	No	100	criterion=“poisson”,splitter="best",max_features="auto"	0.6687169	
28	DT	insurance_pre.csv	No	100	criterion=“poisson”,splitter="random",max_features="auto"	0.6640707	
29	DT	insurance_pre.csv	No	100	criterion=“poisson”,splitter="best",max_features="sqrt"	0.6352998	
30	DT	insurance_pre.csv	No	100	criterion=“poisson”,splitter="random",max_features="sqrt"	0.7403762	
31	DT	insurance_pre.csv	No	100	criterion=“poisson”,splitter="best",max_features="log2"	0.580818	
32	DT	insurance_pre.csv	No	100	criterion=“poisson”,splitter="random",max_features="log2"	0.7249051	
33	RF	insurance_pre.csv	No	100	criterion='squared_error', max_features = 'sqrt'	0.8710098	
34	RF	insurance_pre.csv	No	100	criterion='squared_error', max_features = 'log2'	0.8695051	
35	RF	insurance_pre.csv	No	100	criterion='squared_error', max_features = None	0.8514035	
36	RF	insurance_pre.csv	No	100	criterion='absolute_error', max_features = 'sqrt'	0.8737373	
37	RF	insurance_pre.csv	No	100	criterion='absolute_error', max_features = 'log2'	0.8741378	**Best Model**
38	RF	insurance_pre.csv	No	100	criterion='absolute_error', max_features = None	0.8560974	
39	RF	insurance_pre.csv	No	100	criterion='friedman_mse', max_features = 'sqrt'	0.8716169	
40	RF	insurance_pre.csv	No	100	criterion='friedman_mse', max_features = 'log2'	0.8697104	
41	RF	insurance_pre.csv	No	100	criterion='friedman_mse', max_features = None	0.8505454	
42	RF	insurance_pre.csv	No	100	criterion='poisson', max_features = 'sqrt'	0.8312068	
43	RF	insurance_pre.csv	No	100	criterion='poisson', max_features = 'log2'	0.8303582	