

DecisionTreeRegressor model for Insurances charges

Model#	CRITERION	SPLITER	MAX_FEATURES	R VALUE
1	default	defaul	default	0.688
2	squared_error	best	sqrt	0.694
3	squared_error	best	log2	0.593
4	squared_error	random	log2	0.731
5	squared_error	random	sqrt	0.646
6	friedman_mse	random	sqrt	0.668
7	friedman_mse	random	log2	0.583
8	friedman_mse	best	log2	0.73
9	friedman_mse	best	sqrt	0.658
10	absolute_error	best	sqrt	0.725
11	absolute_error	best	log2	0.755
12	absolute_error	random	log2	0.718
13	absolute_error	random	sqrt	0.749
14	poisson	random	sqrt	0.703
15	poisson	random	log2	0.683
16	poisson	best	log2	0.745
17	poisson	best	sqrt	0.775

The best model is CRITERION = poisson, SPLITER = best, MAX_FEATURES = sqrt. R value = 0.775