

Support Vector Machine :

Sl no	Hyperparameter	Linear Value r	RBF non linear value	Poly	Sigmoid
1	C1	0.885	-0.12	-0.115	-0.125
2	C10	-1.14	-0.12	-0.059	-0.126
3	C100	-193	-0.107	0.414	-0.128
4	C1000		0.04	0.66	-0.157
5	C10000		0.683	0.81	-0.367

Decision Tree:

Sl no	Criterion	Splitter	max_features	randomstate	R value
1	squared_error	best	sqrt	1	0.178
2	squared_error	best	log2	1	0.178
3	squared_error	best	none	1	0.932
4	squared_error	random	sqrt	1	0.752
5	squared_error	random	log2	1	0.752
6	squared_error	random	none	1	0.904
7	friedman_mse	best	sqrt	1	0.178
8	friedman_mse	best	log2	1	0.178
9	friedman_mse	best	none	1	0.932
10	friedman_mse	random	sqrt	1	0.752
11	friedman_mse	random	log2	1	0.752
12	friedman_mse	random	none	1	0.904
13	absolute_error	best	sqrt	1	0.764
14	absolute_error	best	log2	1	0.764
15	absolute_error	best	none	1	0.934
16	absolute_error	random	sqrt	1	0.62
17	absolute_error	random	log2	1	0.62
18	absolute_error	random	none	1	0.904
19	poisson	best	sqrt	1	0.871
20	poisson	best	log2	1	0.871
21	poisson	best	none	1	0.92
22	poisson	random	sqrt	1	0.752
23	poisson	random	log2	1	0.752
24	poisson	random	none	1	0.904