R-square result base on the difference hyperparameter tuning applied on SVM and Decision tree Algorithms

Support Vector Machine

Sl no.	C	Kernel	gama	R2 score
1	500	linear	0.1	0.5928977
2	1000	poly	0.1	-0.0105603
3	1500	rbf	0.1	0.0696302926
4	3000	sigmoid	0.1	0.34736
5	13000	sigmoid	0.1	0.8247372195065548

Decision Tree

Sl no.	Criterion	*splitter*	Max_features	R value
1	***squared_error***	best	log2	0.429736735499439
2	***squared_error***	best	***sqrt***	0.19548945293041653
3	***squared_error***	random	***sqrt***	0.8968774170227326
4	***friedman_mse***	random	***sqrt***	-0.3754250541975621
5	***friedman_mse***	best	***sqrt***	0.8183521430536839
6	***friedman_mse***	random	***Log2***	0.2496118956104767
7	***absolute_error***	best	log2	0.9557769273393263
8	***poisson***	random	***sqrt***	0.9033163234395801
9	***poisson***	best	***Log2***	0.46792809684698544
10	***default***			0.9764409182568788