Finding Best SVM Module using R2 value

R2 will change depends up on various hyper tuning parameter

	kernel	C	coef0	degree	gamma	R2 value
	linear	1000				0.92
	poly	1000				0.81
	rbf	1000				0.37
	sigmoid	1000				0.85
	sigmoid	1000	0.5			0.75
	poly	1000		3		0.81
	poly	1000		1		0.87
	poly	1000		1	*scale*	0.87
	poly	1000		1	*auto*	0.87
	linear	2000				0.93

We got high r2 value for kernel=linear and C=2000 parameter,so this will be the best model

Finding Best Decision Tree Module using R2 value

R2 will change depends up on various hyper tuning parameter

criterion	splitter	max_depth	min_samples_split	ccp_alpha	random_state	R2 value
squared_error						0.91
squared_error	best	*None*	2	0.0	None	0.91

squared_error	***random***	50	5	0.5	10	0.89
friedman_mse						0.90
friedman_mse	best	***None***	2	0.0	None	0.921
friedman_mse	***random***	50	5	0.5	10	0.89
absolute_error						0.96
absolute_error	best	***None***	2	0.0	None	0.928
absolute_error	***random***	50	5	0.5	10	0.83
poisson						0.93
poisson	best	***None***	2	0.0	None	0.925
poisson	***random***	50	5	0.5	10	0.89

We got high r2 value for the hyper tuning parameter criterion=absolute_error