

MULTIPLE LINEAR REGRESSION

R² value is 0.9358

SUPPORT VECTOR MACHINE

Hyper Parameter	Linear	RBF	POLY	Sigmoid
C10	-0.0396	-0.0568	-0.0536	-0.0547
C100	0.1064	-0.0507	-0.0198	-0.0304
C500	0.5928	-0.0243	0.1146	0.0705
C1000	0.7802	0.0067	0.2661	0.185
C2000	0.8767	0.0675	0.481	0.397
C3000	0.8956	0.1232	0.637	0.5913

Best model R² value is 0.8956 in SVM (Linear with C3000 Hyper Parameter)

DECISION TREE REGRESSOR

Criterion	Max_features	Splitter	R Score
<i>squared_error</i>	sqrt	best	0.6523
<i>squared_error</i>	sqrt	random	0.4097
<i>squared_error</i>	log2	best	0.7136
<i>squared_error</i>	log2	random	-0.5152
<i>friedman_mse</i>	sqrt	best	0.6772
<i>friedman_mse</i>	sqrt	random	0.471
<i>friedman_mse</i>	log2	best	0.5979
<i>friedman_mse</i>	log2	random	0.4939
<i>absolute_error</i>	sqrt	best	0.7605
<i>absolute_error</i>	sqrt	random	0.4714
<i>absolute_error</i>	log2	best	0.941
<i>absolute_error</i>	log2	random	0.8495
<i>poisson</i>	sqrt	best	0.6184
<i>poisson</i>	sqrt	random	-0.5285
<i>poisson</i>	log2	best	0.9035
<i>poisson</i>	log2	random	0.8418

Best model's R² value is 0.941 in Decision Tree Regressor (criterion=absolute_error, max_features=log2, splitter=best)