SUPPORT VECTOR MACHINE

Hyper parameter	linear	Non-linear	poly	sigmoid
C10	-0.037	-0.0557	-0.0473	-0.0529
C100	0.1143	-0.0389	0.0410	-0.0041
C500	0.6032	0.0340	0.3506	0.1561
C1000	0.8035	0.1082	0.5616	0.3522
C1500	0.8790	0.1900	0.6218	0.5083
C2000	0.8790	0.2637	0.68622	0.5751
C3000	0.9061	0.3591	0.7585	0.6070

DECISION TREE

S.NO	CRITERION	SPLITTER	MAX FEATURES	R SCORE
1	Squared_error	best	sqrt	-0.2307
2	Squared_error	random	sqrt	0.1016
3	Squared_error	best	log2	0.7445
4	Squared_error	random	log2	0.0911
5	Squared_error	best	none	0.9074
6	Squared_error	random	none	0.6197
7	Friedman_mse	best	sqrt	0.3451
8	Friedman_mse	random	sqrt	-0.4231
9	Friedman_mse	best	log2	0.2562
10	Friedman_mse	random	log2	0.2153
11	Friedman_mse	best	none	0.8985
12	Friedman_mse	random	none	0.9365
13	Absolute_error	best	sqrt	0.6383
14	Absolute_error	random	sqrt	-0.0071
15	Absolute_error	best	log2	0.7434
16	Absolute_error	random	log2	0.4456
17	Absolute_error	best	none	0.9399
18	Absolute_error	random	none	0.8468
19	Poisson	best	sqrt	0.0726
20	Poisson	random	sqrt	0.1357
21	Poisson	best	log2	-0.0660
22	Poisson	random	log2	-1.4587
23	Poisson	best	none	0.9295
24	Poisson	random	none	0.9149

RANDOM FOREST

S.NO	N_ESTIMATORS	CRITERION	MAX FEATURES	R SCORE
1	50	Squared_error	sqrt	0.7892
2	100	Squared_error	sqrt	0.7603
3	50	Squared_error	log2	0.8588
4	100	Squared_error	log2	0.8207
5	50	Squared_error	none	0.9397
6	100	Squared_error	none	0.9390
7	50	Friedman_mse	sqrt	0.7885
8	100	Friedman_mse	sqrt	0.79613
9	50	Friedman_mse	log2	0.8507
10	100	Friedman_mse	log2	0.7607
11	50	Friedman_mse	none	0.9412
12	100	Friedman_mse	none	0.94705
13	50	Absolute_error	sqrt	0.8077
14	100	Absolute_error	sqrt	0.8290
15	50	Absolute_error	log2	0.7868
16	100	Absolute_error	log2	0.8127
17	50	Absolute_error	none	0.9532
18	100	Absolute_error	none	0.9483
19	50	Poisson	sqrt	0.7939
20	100	Poisson	sqrt	0.7742
21	50	Poisson	log2	0.7690
22	100	Poisson	log2	0.7871
23	50	Poisson	none	0.93312
24	100	Poisson	none	0.94020