Support Vector Machine:

Hyp er Para mete	Linear (r value)	RBF (NON LINEAR) (r value)	POLY (r value)	SIGMOID (r value)
r		(112.23)		
C10	0.003250721816758894 7	-0.018572854398117844	- 0.013548290924396467	-0.01585073125893799
C10 0	0.18028594222761862	- 0.009364909092804297	0.03790719343785909	0.014082351620280265
C50 0	0.6909091503857931	0.025757743142911016	0.23767422870647104	0.1342409861378877
C10 00	0.8768358457857834	0.06707569875923425	0.42979860216196086	0.2674555916309973
C15 00	0.9041338590804145	0.1055210325107564	0.5629277708689762	0.387412070235864
C20 00	0.9134824554472242	0.14252592069486747	0.6413547699851418	0.46749717430163684
C30 00	0.9327761918507149	0.22222282761729706	0.7002573051859722	0.6333540203707144

Decision Tree

No	CRITERION	SPLITTER	MAX FEATURES	R VALUE
1	squared_error	Best	Sqrt	0.41713807065726927
2	squared_error	Random	Sqrt	0.5378683141424356
3	squared_error	Best	Log2	0.44375725770296937
4	squared_error	Random	Log2	0.32365754076989595
5	squared_error	Best	None	0.9171934785006532
6	squared_error	random	None	0.88246217858511
7	friedman_mse	Best	Sqrt	-0.08501122775635794
8	friedman_mse	Random	Sqrt	0.9094242396272857
9	friedman_mse	Best	Log2	0.6411966371650364
10	friedman_mse	Random	Log2	-1.2792108979087722
11	friedman_mse	Best	None	0.903916279595469
12	friedman_mse	Random	None	0.8467815844794676
13	absolute_error	Best	Sqrt	-0.3828296475783117
14	absolute_error	Random	Sqrt	0.13344162875684007
15	absolute_error	Best	Log2	-0.17587753433751407
16	absolute_error	Random	Log2	0.5883505235925216
17	absolute_error	Best	None	0.9360732650792688
18	absolute_error	Random	None	0.939029662239798
19	poisson	Best	Sqrt	0.9186756733201573
20	poisson	Random	Sqrt	0.46691972356273215
21	poisson	Best	Log2	0.042321479503550474
22	poisson	Random	Log2	0.7801334262917681
23	poisson	Best	None	0.9431091862476945
24	poisson	Random	None	0.7901975452786448

Random Forest

Sno	N ESTIMATORS	CRITERION	MAXFEATURES	R2 VALUE
1	50	squared_error	Sqrt	0.613507251212222
2	100	squared_error	Sqrt	0.6542182765527815
3	50	squared_error	log2	0.7411171186335046
4	100	squared_error	log2	0.6581541160609805
5	50	squared_error	None	0.9273337325000344
6	100	squared_error	None	0.931867564517127
7	50	absolute_error	Sqrt	0.5623380451906549
8	100	absolute_error	Sqrt	0.671127960163293
9	50	absolute_error	log2	0.364164723638725
10	100	absolute_error	log2	0.7024560867970556
11	50	absolute_error	None	0.9351046367368752
12	100	absolute_error	None	0.937206661452639
13	50	friedman_mse	Sqrt	0.5887472438817573
14	100	friedman_mse	Sqrt	0.676496423890452
15	50	friedman_mse	log2	0.6373281492294232
16	100	friedman_mse	log2	0.7478969127755715
17	50	friedman_mse	None	0.9412871586582846
18	100	friedman_mse	None	0.9213152930405965
19	50	Poisson	Sqrt	0.5857417358275465
20	100	Poisson	Sqrt	0.636918295022046
21	50	Poisson	log2	0.47747194551406213
22	100	Poisson	log2	0.5654168179265978
23	50	Poisson	None	0.9363080813745691
24	100	Poisson	None	0.9203362538119148