

Machine Learning – Regression

1. Multiple Linear Regression:

R2 score value of MLR is **0.935** which is good and state model learned well as it near to 1.

2. Support vector Machine:

HYPER PARAMETERS	LINEAR (R2 SCORE)	NON-LINEAR(R2 SCORE)RBF	POLY	SIGMOID
0.1	0.9375	-0.0574	-0.05	-0.0574
10	-2.437	-0.0558	0.025	-0.0576
100	-357.07	-0.0302	0.465ss	-0.0587
1000	-36014	0.1606	0.640	-0.0707

3. Decision Tree:

CRITERION	SPLITTER	R2 SCORE
Squared error	best	0.88
Squared error	random	0.90
Friedman_mse	best	0.87
Friedman_mse	random	0.92

Poisson	random	0.94
Poisson	best	0.92

4.Random Forest:

CRITERION	N_ESTIMATORS	R2 SCORE
Squared_error	100	0.93
Squared_error	10	0.91
Absolute_error	10	0.96
Absolute_error	100	0.93
Friedman_mse	100	0.93
Friedman_mse	10	0.93
Poisson	10	0.89
Poisson	100	0.94