

## HOPE LEARNING

### Machine Learning Assignment - Dr. N. Dilip Raja

#### Multilinear Regression model

$R^2 = 93.58\%$

#### SVM Regression model

Kernal type	C value	R <sup>2</sup>
Linear	0.01	-0.057
	0.1	-0.057
	1	-0.055
	10	-0.039
	100	0.106
	1000	0.78
Poly	0.01	-0.057
	0.1	-0.057
	1	-0.057
	10	-0.053
	100	0.199
	1000	0.266
rbf	0.01	-0.057
	0.1	-0.057
	1	-0.057
	10	-0.056
	100	-0.05
	1000	0.006
sigmoid	0.01	-0.057
	0.1	-0.057
	1	-0.057
	10	-0.054
	100	-0.03
	1000	0.185
<i>precomputed</i>	0.01	Not computed because of technical problem

#### DT Regression model

Criterion	Splitter	R <sup>2</sup> (%)
Squared Error	Best	88.29
	Random	75.9
Friedman_mse	Best	90.3
	Random	68.49
Absolute_error	Best	94.06
	Random	86.99
	Best	93.25
	Random	91.98