## Model Evaluation for Regression

1.	What is Model Evaluation			3
2.	Why need Model Evaluation			5
3.	Model Evaluation for Regression			7
	a.	$R^2$ sco	ore	9
		i.	What is $R^2$ score?	10
		ii.	Formula	11
		iii.	Step to Calculate R <sup>2</sup>	12
		iv.	Example	13
		V.	Code	16
		vi.	Interpretation	19
	b.	Mean	Square Error	22
		i.	What is Mean Squared Error?	24
		ii.	Formula	25
		iii.	Step to Calculate MSE	26
		iv.	Example	27
		٧.	Code	29
		vi.	Interpretation	31
	C.	Mean	34	
		i.	What is Mean Absolute Error?	36
		ii.	Formula	37
		iii.	Step to Calculate MAE	38
		iv.	Example	39
		٧.	Code	41
		vi.	Interpretation	43
	d.	Mean	Absolute Percentage Error	46
		i.	What is Mean Absolute Percentage Error?	48
		ii.	Formula	49
		iii.	Step to Calculate MAPE	50
		iv.	Example	51
		V.	Code	53
		vi.	Interpretation	55
	e	Conc	lusion	60