## **Model Evaluation**

1.	What is Model Evaluation			
2.	,			
3.	Model Evaluation in Regression			
	a.	$R^2$ scc	ore	9
		i.	What is $R^2$ score?	10
		ii.	Formula	11
		iii.	Step to calculate $R^2$	12
		iv.	Example	13
		٧.	Code	16
	b.	Mean	Square Error	20
		i.	What is Mean Squared Error?	22
		ii.	Formula	23
		iii.	Step to calculate MSE	24
		iv.	Example	25
		٧.	Code	27
	C.	Mean	Absolute Error	30
		i.	What is Mean Absolute Error?	32
		ii.	Formula	33
		iii.	Step to calculate MAE	34
		iv.	Example	35
		٧.	Code	37
	d.	Mean	Absolute Percentage Error	40
		i.	What is Mean Absolute Percentage Error?	42
		ii.	Formula	43
		iii.	Step to calculate MAPE	44
		iv.	Example	45
		٧.	Code	47
	e.	50		
4.	Model Evaluation in Classification			53
	a.	Accur	acy score	54
		i.	What is Accuracy score?	56
		ii.	Formula	57

	iii.	Step to calculate Accuracy score	58
	iv.	Example	59
	٧.	Code	62
b.	ทำควา	มรู้จัก TP, FP, TN, FN	65
C.	Precision score		72
	i.	What is Precision score?	74
	ii.	Formula	75
	iii.	Step to calculate Precision score	76
	iv.	Example	77
	٧.	Code	80
d.	Recall score		83
	i.	What is Recall score?	85
	ii.	Formula	86
	iii.	Step to calculate Recall score	87
	iv.	Example	88
	V.	Code	91
e.	F1 sco	94	
	i.	What is F1 score?	96
	ii.	Harmonic mean	97
	iii.	Formula	102
	iv.	Step to calculate F1 score	103
	٧.	Example	104
	vi.	Code	109
f.	Conclusion		112