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sai.doc45@gmail.com >

NPTEL (https://swayam.gov.in/explorer?ncCode=NPTEL) » Business analytics and data mining Modeling using R (course)



Course outline How does an **NPTEL** online course work? () Week 0 () Week 1 () Week 2 () Week 3 () Week 4 () Week 5 () Week 6 () Week 7 () Week 8 () Week 9 () Week 10 ()

Week 10: Assignment 10

The due date for submitting this assignment has passed.

Due on 2023-04-05, 23:59 IST.

Assignment submitted on 2023-04-05, 12:50 IST

1)	Which of the following tasks are suitable for logistic regression?	1 point

- Profiling
- Classification
- Both of them
- None of the above

Yes, the answer is correct.

Score: 1

Accepted Answers:

Both of them

2) Which of the following estimation methods are used in logistic regression?

1 point

- Ordinary least squares
- Maximum likelihood
- Partial least squares
- None of the above

Yes, the answer is correct.

Score: 1

Accepted Answers:

Maximum likelihood

3) Which type of output values are predicted using logistic regression?

1 point

Lecture 46 LOGISTIC	Continuous Discrete	
REGRESSION (unit?	Range	
unit=84&lesson=85)	None of the above	
Lecture 47LOGISTIC	Yes, the answer is correct. Score: 1	
REGRESSION	Accepted Answers:	
PART-2 (unit?	Discrete	
unit=84&lesson=86)	4) Which of the following are true about logistic regression?	1 point
Lecture 48 LOGISTIC	Logit = Log(odds)	
REGRESSION	✓ Logit = Log(P/(1-P))	
PART-3 (unit?	P = Logistic(x)	
unit=84&lesson=87)	None of the above	
Lecture 49	Yes, the answer is correct.	
LOGISTIC REGRESSION	Score: 1	
PART-4 (unit?	Accepted Answers:	
unit=84&lesson=88)	Logit = Log(odds)	
Lecture 50	Logit = Log(P/(1-P)) P = Logistic(x)	
LOGISTIC	,	
REGRESSION PART-5 (unit?	5) Let us consider the following logistic regression model:	1 point
unit=84&lesson=89)	$P(y = 1 \mid x, w) = g(w0 + w1*x)$, where $g(z)$ is the logistic function.	
Quiz: Week	What would be the range of P values in such a case?	
10 :		
Assignment	(-inf, 0)	
10 (assessment?	(0, 1)	
name=134)	(-inf, inf)	
○ Solution for	(0, inf)	
week 10 :	Yes, the answer is correct.	
Assignment 10	Score: 1	
(unit? unit=84&lesson=90)	Accepted Answers: (0, 1)	
unit-o-alesson-so)	(0, 1)	
Week 11 ()	6) What is the range of the logit function?	1 point
Week 12 ()		
Week 12 ()	(-inf, 0)	
Download	(0, 1)	
Videos ()	(-inf, inf)	
Wookhy	(0, inf)	
Weekly Feedback ()	Yes, the answer is correct.	
	Score: 1	
Text	Accepted Answers:	
Transcripts ()	(-inf, inf)	
	7) Which of the following is true about binary logistic regression?	1 point
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Opendent variable is continuous.	
Dependent variable has two classes.	
◯ There is no dependent variable.	
○ None of the above.	
Yes, the answer is correct. Score: 1	
Accepted Answers: Dependent variable has two classes.	
8) Which of the following is considered a suitable goodness of fit metric for logistic regression?	1 point
SSE	
Deviance	
☐ Multiple R squared	
1 - Deviance/Null Deviance	
☑ None of the above	
No, the answer is incorrect. Score: 0	
Accepted Answers:	
Deviance 1 - Deviance/Null Deviance	
r - Deviance/Null Deviance	
9) Which of the following statements is true about logistic regression?	1 point
Model parameters in the logit model are additive	
Model parameters in the logit model are multiplicative	
Model parameters in the odds model are additive	
Model parameters in the odds model are multiplicative	
Yes, the answer is correct. Score: 1	
Accepted Answers: Model parameters in the logit model are additive Model parameters in the odds model are multiplicative	
10) Which of the following correctly defines the logit?	1 point
O Logical operation	
Natural logarithm of odds ratio	
Natural logarithm of weighted inputs	
O None of the above	
One of the above Yes, the answer is correct. Score: 1	
Yes, the answer is correct.	