reviewer4@nptel.iitm.ac.in ▼ Courses » Business analytics and data mining Modeling using R Announcements Course Ask a Question **Progress** FAQ Unit 6 - Week 5 Register for **Assignment 5 Certification exam** The due date for submitting this assignment has passed. Due on 2019-03-06, 23:59 IST. Course As per our records you have not submitted this outline assignment. 1) Which of the following metrics measures the 'goodness of fit' of a regression model? How to access 1 point the portal Mean absolute deviation Week 1 Root mean squared error R-squared Week 2 Total sum of squared errors Week 3 No, the answer is incorrect. Week 4 Score: 0 **Accepted Answers:** Week 5 R-squared Lecture 21 2) In data mining modeling, the prediction error for performance evaluation is typically 1 point PREDICTION computed on: **PERFORMANCE** Lecture 22 Training partition MULTIPLE Validation partition LINEAR REGRESSION Test partition Lecture 23 None of the above **MULTIPLE** LINEAR No, the answer is incorrect. REGRESSION Score: 0 PART-2 **Accepted Answers:** Lecture 24 Validation partition MULTIPLE LINEAR 3) In the case of prediction, if the overall average error is negative, what does it indicate? 1 point REGRESSION PART-3 On an average level, the model is over predicting the observations Lecture 25 On an average level, the model is under predicting the observations **MULTIPLE** LINEAR On an average level, the model is correctly predicting the observations REGRESSION © 2014 NPTEL - Privacy & Terms - Honor Code - FAQs -A project of In association with National Programme on

Funded by

Week 8	actual values?	
Week 9	MAE	
Week 10	RMSE	
	MAPE	
Week 11	U SSE	
Week 12	No, the answer is incorrect. Score: 0	9
DOWNLOAD VIDEOS	Accepted Answers: MAPE	A28
Text Transcripts	5) The primary objective of predictive modeling in multiple linear regression is to: 1 points	À
Interaction Session	Fit the data closely	29
Cocolon	Estimate values of outcome variable for new records accurately	e e
	Understand the relationship between outcome variable and predictors	Š
	All of the above	
	No, the answer is incorrect. Score: 0	
	Accepted Answers:	
	Estimate values of outcome variable for new records accurately	
	6) Select the correct option with respect to OLS (Ordinary Least Squares): 1 poin	t
	OLS computes the sample estimates which minimizes the sum of deviations between predicted and actual values	
	OLS computes the sample estimates which maximizes the sum of deviations between predicted and actual values	
	OLS computes the sample estimates which minimizes the sum of squared deviations between predicted and actual values	
	OLS computes the sample estimates which maximizes the sum of squared deviations between predicted and actual values	
	No, the answer is incorrect. Score: 0	
	Accepted Answers: OLS computes the sample estimates which minimizes the sum of squared deviations between prediction and actual values	cte
	7) Consider the following statements and select the correct option: 1 points	t
	Assertion (A): The multiple linear regression assumption of 'noise following a normal distribution' must hold true in statistical modeling. Reason (R): In statistical modeling, the same sample is used to fit the model as well as assess its	
	reliability.	
	Both A and R are correct and R is the correct explanation of A	
	Both A and R are correct but R is not the correct explanation of A	
	A is correct but R is incorrect	
	A is incorrect but R is correct	
	No, the answer is incorrect. Score: 0	
	Accepted Answers:	

Both A and R are correct and R is the correct explanation of A	
8) Which among the following statements is incorrect with respect to explanatory modeling?	1 point
The model selected may not have the best predictive accuracy	
Full sample is used to estimate the model	
Performance metrics measure how closely the model fits the data	
No previously assumed structure is hypothesized	
No, the answer is incorrect. Score: 0	
Accepted Answers: No previously assumed structure is hypothesized	
9) The phenomenon of two or more predictors sharing the same linear relationship with the outcome variable is termed as:	1 point
Parsimony	Ç.
Multicollinearity	
Variability Homoskedasticity	
No, the answer is incorrect. Score: 0	
Accepted Answers: Multicollinearity	
10)Consider the following scenario: A retail store estimated the sales of a new variety of bisconsider the coming week to be 575 units. If the actual sales of the product amounted to 435 units, of the prediction error.	
140	
-140	
O 505	
-70	
No, the answer is incorrect. Score: 0	
Accepted Answers: -140	
Previous Page End	d