Regression

TOTAL POINTS 15

1.	Multiple Linear Regression is appropriate for:		3 points	
	Predicting the sales amount based on month			
	O Predicting whether a drug is effective for a patient based on her characterestics			
	Predicting tomorrow's rainfall amount based on the wind speed and temperature			
2.	Which of the following is the meaning of "Out of Sample Accuracy" in the context of evaluation of models?		3 points	
	Out of Sample Accuracy" is the percentage of correct predictions that the model makes on data that the model has NOT been trained on.			
	Out of Sample Accuracy" is the accuracy of an overly trained model (which may captured noise and prod non-generalized model)	duced a		
	generalized model)			
3.	When should we use Multiple Linear Regression ?		3 points	
20,000			(1	
	When we would			
	like to identify the strength of the effect that the independent variables have on a dependent variable.			
	When there are multiple dependent variables			
	✓ When we would-like to predict impacts of changes in independent variables on a dependent variable.			
4.	Which of the following statements are TRUE about Polynomial Regression?		3 points	
	Polynomial regression can use the same mechanism as Multiple Linear Regression to find the parameters	rs.		
	✓ Polynomial regression fits a curve line to your data.			
	✓ Polynomial regression models can fit using the Least Squares method.			
5.	Which sentence is NOT TRUE about Non-linear Regression ?		3 points	
	Nonlinear regression is a method to model non linear relationship between the dependent variable and a independent variables.	a set of		
	For a model to be considered non-linear, y must be a non-linear function of the parameters.			
	Non-linear regression must have more than one dependent variable.			
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