## Classification

## **TOTAL POINTS 15**

1. W	hich one IS NOT a sample of classification problem?			3 points	
	To predict the category to which a customer belongs to.				
	) To predict				
	whether a customer switches to another provider/brand.				
(					
	To predict whether a customer responds to a particular advertising campaign or not.				
	OF HOL.				
2. W	hich of the following statements are <b>TRUE</b> about Logistic Regression? (select all that apply)			3 points	
V	Logistic regression can be used both for binary classification and multi-class classification				
~	Logistic regression is analogous to linear regression but takes a categorical/discrete target field instea one.	ad of a numeri	ic		
~	In logistic regression, the dependent variable is binary.				
2 14	de la contra de la companya de la companya de la contra de				
3. VV	hich of the following examples is/are a sample application of Logistic Regression? (select all that apply)			3 points	
~	The probability that a person has a heart attack within a specified time period using person's age and	d sex.			
~	Customer's propensity to purchase a product or halt a subscription in marketing applications.				
~	Likelihood of a homeowner defaulting on a mortgage.				
	Estimating the blood pressure of a patient based on her symptoms and biographical data.				
4. W	hich one is <b>TRUE</b> about the kNN algorithm?			3 points	
	knn is a classification algorithm that takes a bunch of unlabelled points and uses them to learn how to label other points.				
•					
	used to estimate values for a continuous target.				
5. W	hat is " <b>information gain</b> " in decision trees?			3 points	
	) It is the information that can decrease the level of certainty after splitting in each node.				
•	It is the entropy of a tree before split minus weighted entropy after split by an attribute.				
	) It is the amount of information disorder, or the amount of randomness in each node.				
	, <b>Guodong Zhang</b> , understand that submitting another's work as my own can result in zero credit for this assignment. Repeated violations of the Coursera Honor Code may result in removal from this course or deactivation of my Coursera account.		8	₽ P	
	Learn more about Coursera's Honor Code				
		Save		Submit	