Classification

TOTAL POINTS 15

1.	Which 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 the amount of money a customer will spend in one year.	
	To predict whether a customer responds to a particular advertising campaign or not.	
2.	Which of the following statements are TRUE about Logistic Regression? (select all that apply)	3 points
	Logistic regression can be used both for binary classification and multi-class classification	
	Logistic regression is analogous to linear regression but takes a categorical/disc target field instead of a numeric one.	crete
	In logistic regression, the dependent variable is binary.	
3.	Which of the following examples is/are a sample application of Logistic Regression? (select all that apply)	2 3 points
	The probability that a person has a heart attack within a specified time period us person's age and sex.	sing
	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 biograph data.	hical

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4. W	hich one is TRUE about the kNN algorithm?	3 points	
C	kNN is a classification algorithm that takes a bunch of unlabelled points and uses them to learn how to label other points.		
	kNN algorithm can be used to estimate values for a continuous target.		
5. W	hat is "information gain" in decision trees?	3 points	
C	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.		
С	It is the amount of information disorder, or the amount of randomness in each node.		
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