QUIZ • 10 MIN

Classification

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TOTAL POINTS 15

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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/discrete target field instead of a numeric one.
- ☑ 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) 3 points

- ☑ The probability that a person has a heart attack within a specified time period using person's age and 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. Which one is **TRUE** 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.
- ◉ kNN algorithm can be used to estimate values for a continuous target.

5. What is "**information gain**" 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.

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