**From Modeling to Evaluation**

**LATEST SUBMISSION GRADE**

85%

1.

Question 1

Select the correct statement.

**1 / 1 point**



A training set is used for statistical analysis.



A training set is used for data visualization.



A training set is used for descriptive modeling.



A training set is used for predictive modeling.

**Correct**

Correct.

2.

Question 2

A statistician calls a false-negative, a type I error, and a false-positive, a type II error.

**1 / 1 point**



True



False

**Correct**

Correct.

3.

Question 3

Which statement best describes the Modeling Stage of the data science methodology?

**1 / 1 point**



Modeling is always based on predictive models.



The Modeling stage is followed by the Analytic Approach stage.



Modeling always uses training and test sets.



Modeling may require testing multiple algorithms and parameters.

**Correct**

Correct.

4.

Question 4

Model Evaluation includes ensuring that the data are properly handled and interpreted.

**1 / 1 point**



True



False

**Correct**

Correct.

5.

Question 5

Select the correct statements about the ROC curve.

**0.25 / 1 point**



The ROC curve was originally developed to optimize healthcare and detect congestive heart failure readmission rate.

**This should not be selected**

Incorrect.



By plotting the true-positive rate against the false-positive rate for different values of the relative misclassification cost, the ROC curve can be used to select the optimal model.



The ROC curve is a useful diagnostic tool for determining the optimal classification model.

**Correct**

Correct.



ROC stands for Receiver Operating Characteristic curve, which was originally developed to detect enemy aircrafts on radar.