Your grade: 80%

Your latest: **80%** • Your highest: **80%**
To pass you need at least 70%. We keep your highest score.

1. Which of the following statements about Downsampling is TRUE? **1 / 1 point**

Downsampling preserves all the original observations.

Downsampling is likely to decrease Recall.

Downsampling is likely to decrease Precision.

Downsampling results in excessive focus on the more frequently-occurring class.

Correct
Correct! You can find more information in the lesson *Upsampling and Downsampling*.

2. Which of the following statements about Random Upsampling is TRUE? **1 / 1 point**

Random Upsampling will generally lead to a higher F1 score.

Random Upsampling preserves all original observations.

Random Upsampling generates observations that were not part of the original data.

Random Upsampling results in excessive focus on the more frequently-occurring class.

Correct
Correct! You can find more information in the lesson *Upsampling and Downsampling*.

3. Which of the following statements about Synthetic Upsampling is TRUE? **1 / 1 point**

Synthetic Upsampling will generally lead to a higher F1 score.

Synthetic Upsampling results in excessive focus on the more frequently-occurring class.

Synthetic Upsampling uses fewer hyperparameters than Random Upsampling.

Synthetic Upsampling generates observations that were not part of the original data.

Correct
Correct! You can find more information in the lesson *Upsampling and Downsampling*.

4. What can help humans to interpret the behaviors and methods of Machine Learning models more easily? **1 / 1 point**

Model Trust

Model Debug

Explanation Debug

Model Explanations

Correct
Correct! Model explanations can help humans to interpret the behaviors and methods of Machine Learning models more easily

5. What type of explanation method can be used to explain different types of Machine Learning models no matter the model structures and complexity? **1 / 1 point**

Model-Agnostic Explanations

Model Trust Explanations

Model Explanations

Local Interpretable Model-Agnostic Explanations (LIME)

Correct
Correct! The Model-Agnostic explanation can be used to describe different types of Machine Learning models no matter the complexity while also having the same formats and presentations for model explanations?

6. What reason might a Global Surrogate model fail? **1 / 1 point**

Consistency between surrogate models and black-box models

Single clusters in the data instance groups

Large inconsistency between surrogate models and black-box models

Single data instance groups

Correct
Correct! A Global Surrogate model might fail if there is a large inconsistency between surrogate models and black-box models.

7. When working with unbalanced sets, what should be done to the samples so the class balance remains consistent in both the train and test set? **1 / 1 point**

Use a combination of oversampling and undersampling

Apply weighted observations

Use oversampling

Stratify the samples

Correct
Correct! You should stratify the samples so the class balance remains consistent in both the train and test set.

8. What approach are you using when trying to increase the size of a minority class so that it is similar to the size of the majority class? **1 point**

Random Oversampling

Synthetic Oversampling

Oversampling

Undersampling

Incorrect
Incorrect. Please review the lesson: *Modeling Approaches:Random and Synthetic Oversampling*

9. What approach are you using when you create a new sample of a minority class that does not yet exist? **1 / 1 point**

Oversampling

Synthetic Oversampling

Weighting

Random Oversampling

Correct
Correct! Synthetic Oversampling is an approach used to create a new sample of a minority class that does not yet exist.

10. What intuitive technique is used for unbalanced datasets that ensures a continuous downsample for each of the bootstrap samples?

SMOTE

Upsampling

Downsampling

Blagging

⊗ **Incorrect**
Incorrect. Please review the lesson: *Modeling Approaches: Blagging*