Your grade: 80%

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

Next item →

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

- ○ Downsampling preserves all the original observations.
- ○ Downsampling results in excessive focus on the more frequently-occurring class.
- ○ Downsampling is likely to decrease Precision.
- ◉ Downsampling is likely to decrease Recall.

Incorrect
Incorrect. Please review the lesson *Upsampling and Downsampling*.

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

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

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 results in excessive focus on the more frequently-occurring class.
- ○ Synthetic Upsampling will generally lead to a higher F1 score.
- ○ 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 Explanations
- ○ Explanation Debug
- ○ Model Debug
- ○ Model Trust

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

- ○ Local Interpretable Model-Agnostic Explanations (LIME)
- ○ Model Explanations
- ○ Model Trust Explanations
- ◉ Model-Agnostic Explanations

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

- ○ Single clusters in the data instance groups
- ◉ Large inconsistency between surrogate models and black-box models
- ○ Single data instance groups
- ○ Consistency between surrogate models and black-box models

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 oversampling
- ○ Use a combination of oversampling and undersampling
- ◉ Stratify the samples
- ○ Apply weighted observations

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 / 1 point

- ○ Synthetic Oversampling
- ○ Undersampling
- ○ Random Oversampling
- ◉ Oversampling

Correct
Correct! You are oversampling when trying to increase the size of a minority class so that it is similar to the size of the majority class

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

- ○ Weighting
- ◉ Synthetic Oversampling
- ○ Oversampling
- ○ 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? — 1 point

- ◉ Downsampling
- ○ SMOTE
- ○ Upsampling
- ○ Blagging

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