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Quiz: Lesson 1: Getting Started with Machine Learning and SAS Viya

Your Score: 100%
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1. SAS Viya is a cloud-enabled, in-memory analytics run-time environment that scales to data of any size, type, speed, and complexity.

    a. True
    b. False

    Your answer: a
    Correct answer: a

    This is an accurate description of SAS Viya.

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2. Which of the following is a common interface for SAS Viya applications, that enables you to easily view, organize, and share your content from one place?

    a. Applications Menu
    b. Model Studio
    c. Exchange
    d. SAS Drive

    Your answer: d
    Correct answer: d

    SAS Drive is a common interface for SAS Viya applications.

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3. A model that generalizes well has which of the following?

    a. high variance
    b. high bias
    c. a balance of variance and bias

    Your answer: c
    Correct answer: c

    Choosing a model that generalizes well involves a trade-off between bias and variance.

✔ 4. After you create a new project, Model Studio takes you to the Data tab. Which of the following can you do on the Data tab?

    a. add variable labels

    b. modify variable names

    c. modify variable roles and measurement levels

Your answer: c
Correct answer: c

You cannot modify the variable names and variable labels in Model Studio.

✔ 5. The probability of churning is which type of prediction?

    a. estimate

    b. ranking

    c. decision

    d. imputation

Your answer: a
Correct answer: a

Churn is a categorical target, so the probability of the target outcome is an estimate.

✔ 6. When you create a project in Model Studio, event-based sampling is used (that is, turned on) by default.

    a. True

    b. False

Your answer: b
Correct answer: b

Event-based sampling is turned off by default when a project is created. If you want to use event-based sampling, you can manually turn it on in the project settings before you run a pipeline in the project.

✔ 7. Which of the following statements is true about machine learning?

    a. Machine learning is another name for artificial intelligence.

    b. You can combine machine learning algorithms in SAS Viya with open source tools.

    c. Neural networks are the only machine learning models that learn from the data.

    d. Compared to conventional models, machine learning models produce better results from big data but require more time to do so.

Your answer: b
Correct answer: b

You can combine machine learning algorithms in SAS Viya with open source tools.

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8. Which of the following statements about complete case analysis is true?

  a. In complete case analysis, all available cases are used to build the model, regardless of whether they have missing values.

  b. If missingness is predictive of the target, you can use complete case analysis without introducing bias into the model.

  c. All machine learning algorithms in Model Studio use complete case analysis.

  d. Complete case analysis can reduce the predictive accuracy of the model.

Your answer: d
Correct answer: d

Complete case analysis can remove a tremendous amount of information from the training data and reduce the predictive accuracy of the model.

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9. In SAS Viya, you might have nondeterministic results.

  a. True

  b. False

Your answer: a
Correct answer: a

Due to the distributed nature of the engine that underlies SAS Viya (CAS), results might not be reproducible (that is, nondeterministic).

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10. CAS is designed to run in a single-machine symmetric multiprocessing (SMP) configuration but not in a multi-machine massively parallel processing (MPP) configuration.

  a. True

  b. False

Your answer: b
Correct answer: b

CAS can run in both SMP and MPP configurations.

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