

1. Fill in the blank: The first stage of the data science methodology is _____.

1 / 1 point

- ☐ Data Collection
- ☐ Data Understanding
- ☒ Business Understanding
- ☐ Modeling

✔ Correct

Correct! Business Understanding is the first stage of Foundational Data Science Methodology

2. Select the statement that describes what happens during the Business Understanding stage that makes this stage a vital part of Data Science Methodology

1 / 1 point

- ☐ Data scientists select an analytical approach.
- ☒ Data scientists take actions to determine what business problem the company or organization needs to solve.
- ☐ Data scientists review a preliminary data model with stakeholders.
- ☐ Data scientists locate data for use in models.

✔ Correct

Correct! Data scientists take actions to determine what business problem the company or organization needs to solve.

3. Fill in the blank: During the Data Collection stage, data scientists can apply _____ to the data set to assess the data content and quality and gain initial data insights.

1 / 1 point

- ☒ Descriptive statistics and visualization techniques
- ☐ Predictive statistics
- ☐ Data modeling techniques
- ☐ Stakeholder feedback

✔ Correct

Correct! During the Data Collection stage, data scientists can apply descriptive statistics and visualization techniques to the data set to assess the data content and quality and gain initial insights about the data.

4. Fill in the blank. A _____ is used for predictive modeling.

1 / 1 point

- ☐ Analysis set
- ☒ Training set
- ☐ Technique set
- ☐ Modeling set

✔ Correct

Correct! A training set is used for predictive modeling.

5. A false-positive is what type of error?

1 / 1 point

- ☐ Type III error
- ☒ Type I error
- ☐ Type II error
- ☐ Type L error

✔ Correct

Correct! A false positive is a Type I error.

6. Select the correct statement about the Data Preparation stage.

1 / 1 point

- ☐ During the Data Preparation stage, data scientists ignore missing values.
- ☒ During the Data Preparation stage, data scientists correct invalid values and address outliers.
- ☐ During the Data Preparation stage, data scientists ignore duplicate data.
- ☐ During the Data Preparation stage, data scientists use the data without any formatting.

✔ Correct

Correct! Data scientists correct invalid values during the Data Preparation stage and address outliers.

7. The final stages of the data science methodology are an iterative cycle between which stages?

1 / 1 point

- ☐ Data Understanding, Data Preparation, Evaluation, and Feedback
- ☐ Modeling, Deployment, Data Understanding, Data Preparation
- ☐ Data Preparation, Evaluation, Feedback, Deployment
- ☒ Modeling, Evaluation, Deployment, and Feedback

✔ Correct

Feedback: Correct! Modeling, Evaluation, Deployment, and Feedback are often iterative cycles.

8. Select the correct sentence about the data science methodology as explained in the course.

0 / 1 point

- ☐ Data science methodology depends on specific technologies or tools.
- ☒ Data science methodology provides data scientists with a framework for answering to management.
- ☐ Data science methodology always starts with Business Understanding.
- ☐ The data science methodology requires going through all of the stages successively before going through the stages again.

✘ Incorrect

Incorrect. Review the Data Science Methodology Overview video.

9. Fill in the blank. Data science methodology is a specific strategy that guides processes and activities related to _____.

1 / 1 point

- ☐ Strict data procurement practices
- ☒ Answering the business question
- ☐ Specifying stakeholders
- ☐ Creating a data model using only one iteration.

✔ Correct

Correct. Data science methodology is a specific strategy that guides processes and activities related to answering the business question.

10. How does storytelling contribute to the work of data scientists?

1 / 1 point

- ☒ Storytelling helps convey data insights and drive actions.
- ☐ Storytelling is unrelated to the field of data analysis
- ☐ Storytelling is only important for executive-level presentations
- ☐ Storytelling enhances data visualization techniques

✔ Correct

Correct! Storytelling contributes to the work of data scientists by conveying data insights and driving actions.