

# Final Exam

Latest Submission Grade 100%

1.

## Question 1

The first state of the \_\_\_\_\_ is Business Understanding.

1 / 1 point

☐

Data collection methodology

☐

Computer modeling methodology

☒

Data science methodology

☐

Data analysis methodology

Correct

2.

## Question 2

Business Understanding is an important stage in the data science methodology because;

1 / 1 point

☐

It is determined by the analytical approach you want to use.

☐

It ensures that the work generates all possible solutions.

☒

It clearly defines the problem and the needs from a business perspective.

☐

It generates the data that will be used in the study.

Correct

3.

## Question 3

According to the videos, you can think of the \_\_\_\_\_ and \_\_\_\_\_ stages as a cooking task, where the problem at hand is a recipe, and the data to answer the question is the ingredients.

1 / 1 point

☒

Data Requirements; Data Collection

☐

Data Analysis; Presentation Requirements



Analytics; Business Requirements



Business Requirements; Presentation Requirements

**Correct**

**4.**

**Question 4**

In the Data Collection stage, techniques such as \_\_\_\_\_ and visualization can be applied to the data set, to assess the content, quality, and initial insights about the data.

**1 / 1 point**



Descriptive statistics



The supervised method



Data manipulation



The unsupervised method

**Correct**

**5.**

**Question 5**

A training set is used for \_\_\_\_\_.

**1 / 1 point**



Predictive modeling



Descriptive modeling



Statistical analysis



Data Visualization

**Correct**

**6.**

**Question 6**

A false-negative is what type of error?

**1 / 1 point**



Type II error

☐

Type I error

☐

Type L error

☐

Type III error

**Correct**

**7.**

**Question 7**

The Data Understanding stage encompasses \_\_\_\_\_.

**1 / 1 point**

☐

Sorting the data.

☒

All activities related to constructing the dataset.

☐

Removing redundant data.

☐

Transforming data.

**Correct**

**8.**

**Question 8**

The Data Preparation stage involves what?

**1 / 1 point**

☐

Addressing missing values.

☐

Correcting invalid values and addressing outliers.

☐

Removing duplicate data.

☐

Formatting the data.

☒

All of the above

Correct

9.

**Question 9**

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

1 / 1 point

☐

Data Understanding, Data Preparation, Evaluation, and Modelling.

☐

Modelling, Evaluation, Data Understanding, Data Preparation, and Deployment.

☒

Modelling, Evaluation, Deployment, and Feedback.

☐

Modelling, Data Preparation, Deployment, and Feedback.

Correct

10.

**Question 10**

Deploying a model into production represents the beginning of an iterative process between;

1 / 1 point

☐

Feedback

☐

Model Refinement

☐

Redeployment

☒

All of the above

Correct

11.

**Question 11**

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

1 / 1 point

☐

The data science methodology does not depend on a specific set of technologies or tools.

☐

The data science methodology always starts with Business Understanding.

☐

The data science methodology is an iterative process.



All of the above

**Correct**

**12.**

**Question 12**

What do data scientists typically use for exploratory analysis of data and to get acquainted with it?

**1 / 1 point**



They use support vector machines and neural networks as feature extraction techniques.



They use deep learning.



They begin with regression, classification, or clustering.



They use descriptive statistics and data visualization techniques.

**Correct**