edX

Week 1 Quiz
Multiple Choice

1/1 point (graded)
What is true about data science? Select 3.

☐ a static, one time analysis of big data

☑ a model generated that leads to insights and can be improved

☑ management of data

☑ seeing how everything is connected

✔

Answer
Correct:
Video: "Data Science: Getting Value out of Data"
Video: "Data Science: Getting Value out of Data"
Video: "Data Science: Getting Value out of Data"
Video: "Data Science: Getting Value out of Data"

Submit

✔ Correct (1/1 point)

Multiple Choice

1/1 point (graded)
What is an example of insight turned into action?

⦿ Marketing a new product based on past sales information ✔

○ Prediction of customers' choices

○ Understanding of customer profiles

○ Gathering data sales data

Answer
Correct: Video: "Data Science: Getting Value out of Data" ex. Amazon book marketing

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✔ Correct (1/1 point)

True or False

1/1 point (graded)
Data science only generates actionable information for the future.

○ True

◉ False ✔

Answer
Correct: Video: "Data Science: Getting Value out of Data" (Data science is also the analysis of the past)

Submit

✔ Correct (1/1 point)

Multiple Choice

1/1 point (graded)
What is the function Kmeans (from sklearn) used for in Python in the example soccer data analysis overview?

◉ Clustering ✔

○ Classification

○ Regression

○ Model Selection

Answer
Correct: Video: "Case Study: Soccer Data Analysis"

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✔ Correct (1/1 point)

Multiple Choice

1/1 point (graded)
Which of the following is NOT a step in the formal data science process?

● Collaborate ✔

○ Acquire

○ Prepare

○ Analyze

Answer
Correct:
Video: "How Does Data Science Happen". Collaboration is often critical to successful data science teams, but is not an explicit step.

Submit

✔ Correct (1/1 point)

Multiple Choice

1/1 point (graded)
What are the ingredients to form a data science problem (select 3)?

☑ define what it is you're trying to tackle

☑ assess the situation with respect to the problem

☑ define your goals and objectives

☐ assess the population to which the problem refers

✔

Answer
Correct:
Video: "Asking the Right Question"
Video: "Asking the Right Question"
Video: "Asking the Right Question"
Video: "Asking the Right Question"

Submit

✔ Correct (1/1 point)

True or False

1/1 point (graded)
Data science is an iterative process.

◉ True ✔

◯ False

Answer
Correct: Video: "Steps in Data Science"

Submit

✔ Correct (1/1 point)

Multiple Choice

1/1 point (graded)

Which should you do first after you put together data needed for application?

○ Build models to analyze the data

◉ Explore the data you put together ✔

Answer
Correct: Video: "Step 2A: Exploring Data"

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✔ Correct (1/1 point)

Multiple Choice

1/1 point (graded)
What graph is best to show values in your data change over time?

○ heat map

○ histogram

○ boxplot

◉ line graph ✔

○ scatter plot

Answer
Correct: Video: "Step 2A: Exploring Data"

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✔ Correct (1/1 point)

True or False

1/1 point (graded)
Raw data from sources can always be directly used to perform analysis.

○ True

● False ✔

Answer
Correct: Video: "Step 2B: Pre-Processing Data"

Submit

✔ Correct (1/1 point)

Multiple Choice

1/1 point (graded)
What is NOT important in collecting data?

○ the user population

○ the intended uses of the application

● how the data was presented ✔

Answer
Correct:
Video: "Step 2B: Pre-Processing Data" (we can modify raw data, so how the data was collected is important not the way data was presented)

Submit

✔ Correct (1/1 point)

Multiple Choice

1/1 point (graded)
What are ways to manipulate the cleaned data into the format needed for analysis (select 5)?

☑ Scaling

☑ Transformation

☑ Feature selection

☑ Dimensionality reduction

☑ Data manipulation

☐ Denominate data

✔

Answer
Correct:
Video: "Step 2B: Pre-Processing Data"
Video: "Step 2B: Pre-Processing Data"
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✔ Correct (1/1 point)

Multiple Choice

1/1 point (graded)
For which of the following scenarios would you use the analysis technique of classification?

◉ predicting the weather ✔

○ predict the price of a stock

○ simulating sales of a new product

○ predicting the score on a test

Answer
Correct: Video: "Step 3: Analyze Data"

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✔ Correct (1/1 point)

Multiple Choice

1/1 point (graded)
Which analysis technique has the goal of finding a set of rules to capture associations between items or events?

⭕ classification

⭕ regression

⭕ clustering

🔵 association analysis ✔

⭕ graph analytics

Answer
Correct: Video: "Step 3: Analyze Data"

Submit

✔ Correct (1/1 point)

True or False

1/1 point (graded)
Once you have devised an action based on an insight, there is no need to continue collecting data.

⭕ True

🔵 False ✔

Answer
Correct: Video: "Step 5: Turning Insights into Action"

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✔ Correct (1/1 point)

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✔ Correct (1/1 point)