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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"

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

Submit

i Answers are displayed within the problem

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

Submit

i Answers are displayed within the problem

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

i Answers are displayed within the problem

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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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

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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

i Answers are displayed within the problem

True or False

1/1 point (graded)

Data science is an iterative process.

☒ True ✓

☐ False

Answer

Correct: Video: "Steps in Data Science"

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i Answers are displayed within the problem

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"

Submit

i Answers are displayed within the problem

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"

Submit

i Answers are displayed within the problem

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

i Answers are displayed within the problem

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

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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"

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

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

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

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

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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"

Submit

i Answers are displayed within the problem

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

i Answers are displayed within the problem

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"

Submit

 Answers are displayed within the problem

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