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From Problem to Approach

Latest Submission Grade 100%

Select the correct statement.	1/1 point
The first stage of the data science methodology is Modeling.	
The first stage of the data science methodology is Business Understanding.	
The first stage of the data science methodology is Data Understanding.	
The first stage of the data science methodology is Data Collection.	
2. The main purpose of the analytic approach is identifying what type of patterns will be needed to address the posed question most effectively.	1/1 point
① True	
○ False	
3. Which machine learning algorithm was implement in the case study discussed in the videos?	1/1 point
O Logistic Regression.	
○ <i>k</i> -Nearest Neighbor.	
Support Vector Machines.	
Decision Tree Classification.	

4

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From Requirements to Collection

La	atest Submission Grade 100%	
1.	The Data Requirements stage of the data science methodology involves identifying the necessary data content, formats and sources for initial data collection.	1/1 point
	True	
	○ False	
2.	Which of the following statements are correct?	1/1 point
	Data scientists determine how to collect the data.	
	Data scientists identify the data that is required for data modeling.	
	Data scientists determine how to prepare the data.	
	None of the above.	
3.	In the Data Collection stage, the data requirements are revised and decisions are made as to whether or not more data is needed.	1/1 point

True

O False

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From Understanding to Preparation

Latest Submission Grade 100%

Correct.

La	test Submission Grade 100%	
1.	In the case study, working through the Data Preparation stage, it was revealed that the initial definition was not capturing all of the congestive heart failure admissions that were expected, based on clinical experience.	1/1 point
	○ True	
	False	
	 Correct Correct. It was working through the Data Understanding staging that the initial definition was found to be incomplete. 	
2.	During the Data Preparation stage, clients and stakeholders aggregate the data and merge them from different sources, enabling data scientists to use clean data in the analysis.	1/1 point
	○ True	
	False	
	○ Correct Correct.	
3.	Select the correct statement about the Data Preparation stage of the data science methodology.	1/1 point
	O Data Preparation is typically the least time-consuming methodological step.	
	Data Preparation involves dealing with missing improperly coded data and can include using text analysis to structure unstructured or semi-structured text data.	
	O Data Preparation cannot be accelerated through automation.	
	None of the above statements are correct.	

4

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From Modeling to Evaluation

Latest Submission Grade 100%

True

1.	Which statement best describes the Modeling Stage of the data science methodology?	1/1 point
	The Modeling stage is followed by the Analytic Approach stage.	
	Modeling always uses training and test sets.	
	Modeling may require testing multiple algorithms and parameters.	
	Modeling is always based on predictive models.	
2.	Select the correct statement(s) about the Model Evaluation stage of the data science methodology.	1/1 point
	✓ Model Evaluation includes ensuring that the model is working as intended.	
	✓ Model Evaluation includes ensuring that the data are properly handled and interpreted.	
	○ Correct Correct.	
	✓ Model Evaluation includes ensuring the model is designed as intended.	
	Model Evaluation cannot include statistical significance testing.	
3.	The ROC curve is a useful diagnostic tool for determining the optimal classification model.	1/1 point

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From Deployment to Feedback

Only options A and D are correct.

None of the options are correct. All of the options are correct.

Only option C is correct.

La	atest Submission Grade 83.33%	
1.	Feedback is not required once the model is deployed because the Model Evaluation stage would have assessed the model and made sure that it performed well. True False	1/1 point
2.	A data scientist determines that building a recommender system is the solution for a particular business problem at hand. This is represented by the Modeling stage of the data science methodology? True False	1/1 point
3.	A car company asked a data scientist to determine what type of customers are more likely to purchase their vehicles. However, the data comes from several sources and is in a relatively "raw format". What kind of processing can the data scientist perform on the data to prepare it for the Modeling stage?	1/1 point
	A. Feature Engineering.	
	B. Transforming the data into more useful variables.	
	C. Combining the data from the various sources.	
	D. Addressing missing invalid values.	

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Which of the following represent the two important characteristics of the data science methodology?	1/1 point
O It has no endpoint because data collection occurs before identifying the data requirements.	
It is a highly iterative process and immediately ends when the model is deployed.	
It immediately ends when the model is deployed because no feedback is required.	
It is a highly iterative process and it never ends.	
5. For predictive models, a test set, which is similar to – but independent of – the training set, is used to determine how well the model predicts outcomes. This is an example of what step in the methodology?	0/1 point
Model Evaluation.	
Analytic Approach.	
O Deployment.	
Data Requirements.	
6. What are three important reasons that data scientists should maintain continuous communication with business sponsors throughout a project?	1/1 point
So that business sponsors can ensure the work remains on track to generate the intended solution.	
So that business sponsors can review intermediate findings.	
So that business sponsors can provide domain expertise.	

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set, to assess the content, quality, and initial insights about the data.

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Final Exam

				4.000/
Latest	Subm	ussion	Grade	100%

1.	Which of the following is the first state of the data science methodology?	1/1 point
	O Data Understanding	
	O Data Collection	
	Business Understanding	
	O Modeling	
	⊙ Correct	
2.	Business Understanding is the least important stage in the data science methodology because none of the other stages depend on it.	1/1 point
	○ True,	
	False	
	⊙ Correct	
3.	According to the videos explaining the Data Requirements and Data Collection stages of the data science methodology, you can think of the Data Requirements and Data Collection stages as a cooking task, where the problem at hand is a recipe, and the data to answer the question is what?	1/1 point
	○ The presentation	
	The temperature to cook at	
	The ingredients	
	○ The measurements	
	⊙ Correct	
4.	In the Data Collection stage, techniques such as descriptive statistics and can be applied to the data	1/1 point

1/1 point

4. In the Data Collection stage, techniques such as descriptive statistics and can be applied to the data set, to assess the content, quality, and initial insights about the data.	1/1 point	Your computer's timezone does not seem X to match your Coursera account's timezone setting of UTC.
Visualization		Change your Coursera timezone setting
O Data manipulation		
The supervised method		
The unsupervised method		
⊙ Correct		
5. A training set is used for what?	1/1 point	
O Statistical analysis		
Predictive modeling		
O Descriptive modeling		
O Data Visualization		
⊙ Correct		
6. A type I error is a	1/1 point	
O Hypothesis error		
False-positive error		
False-negative error		
False-alarm error		
⊘ Correct		
7. The Data Understanding stage refers to the stage of removing redundant data.	1/1 point	
○ True		
False		
⊘ Correct		
		•

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	⊙ Correct		
7.	The Data Understanding stage refers to the stage of removing redundant data.	1/1 point	
	○ True		
	False		
	⊙ Correct		
8.	Select the correct statement about the Data Preparation stage.	1/1 point	
	The Data Preparation stage involves addressing missing values.		
	The Data Preparation stage involves correcting invalid values and addressing outliers.		
	The Data Preparation stage involves removing duplicate data.		
	The Data Preparation stage involves properly formatting the data.		
	All of the above statements are correct.		
9.	The final stages of the data science methodology are an iterative cycle between Modeling, Evaluation, Deployment, and	1/1 point	
	O Data Understanding		
	O Data Preparation		
	Feedback		
	None of the above.		
	⊙ Correct		
10.	Deploying a model into production represents the end of the iterative process that includes Feedback, Model Refinement, and Redeployment.	1/1 point	
	○ True.		
	False		

d.

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9.	The final stages of the data science methodology are an iterative cycle between Modeling, Evaluation, Deployment, and,	1/1 point
	O Data Understanding	
	O Data Preparation	
	Feedback	
	None of the above.	
	○ Correct	
10), Deploying a model into production represents the end of the iterative process that includes Feedback, Model Refinement, and Redeployment.	1/1 point
	O True.	
	False	
	○ Correct	
11	. The data science methodology is a specific strategy that guides processes and activities relating to data science only for text analytics.	1/1 point
	○ True	
	False	
	⊙ Correct	
12	2. Support vector machines and neural networks are what type of algorithms?	1/1 point
	Regression	
	O Extraction	
	Classification	
	Clustering	
	⊘ Correct	