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Discussion

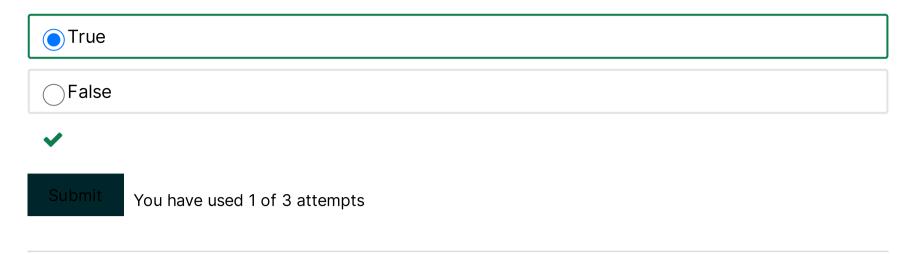
<u>Wiki</u>

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nd of Cou Bookmark this p	rse Assessment Page	
Questio	due Mar 12, 2021 22:32 IST Completed 7 1 ssible (ungraded)	
What is the	e first step when creating a new Jupyter notebook?	
○ Give t	ne notebook a name	
Choos	se a kernel	
Start t	yping code	
Olick F	Run	
~		
Submit Question 3/3 points (g) What is the		d deep learning?
Question 3/3 points (g What is the This term is commonly	n 2 graded) e difference between artificial intelligence, machine learning, and used to describe the field of computer science dedicated to solving associated with human intelligence.	
Question 3/3 points (g What is the This term is commonly Artificial In This term is based on re	n 2 graded) e difference between artificial intelligence, machine learning, and s used to describe the field of computer science dedicated to solvin	ng cognitive problems
Question 3/3 points (g What is the This term is commonly Artificial In This term is based on re	graded) e difference between artificial intelligence, machine learning, and a used to describe the field of computer science dedicated to solving associated with human intelligence. Intelligence sused to describe a collection of algorithms that can learn from an ecorded data, optimize a given utility function under uncertainty, earnd classify data into concise descriptions.	ng cognitive problems

Question 3

1/1 point (graded)

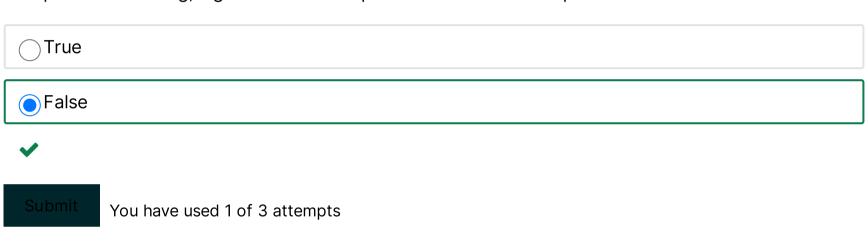
The pd.crosstab() function lets you select multiple columns in a DataFrame and see how many transactions overlap for different column values.



Question 4

1/1 point (graded)

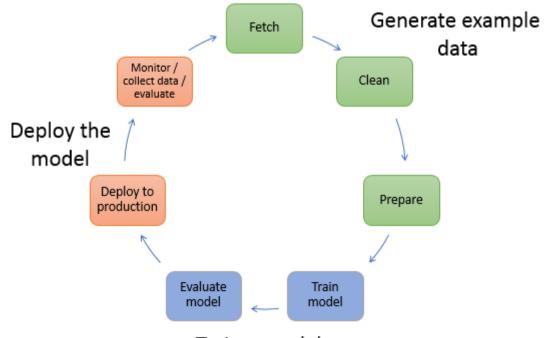
In supervised learning, algorithms discern patterns and relationships from an unlabeled dataset.



Question 5

1/1 point (graded)

The following diagram illustrates the typical workflow for creating a machine learning model:



Train a model

In which phase would you choose a learning algorithm?



1/1 point (graded)
The K-means algorithm is one of the most popular supervised machine learning algorithms

True

False

Vou have used 1 of 3 attempts

Question 7

1/1 point (graded)
Which statement is true about hyperparameter tuning?

Hyperparameter tuning is an unsupervised machine learning regression problem.

Hyperparameter tuning does not require any input values.

Hyperparameter tuning uses regression to choose the best values to test.

Hyperparameter tuning is a guaranteed way to improve your model.

Vou have used 1 of 3 attempts

Question 8

4/4 points (graded)

You would like to predict rent for a house based on the area (measured in square feet) and the number of bedrooms it has. For your machine algorithm to learn, you have compiled the following training data:

	Area	Bedrooms	Rent
House 1	1,500	2	\$1,000
House 2	2,000	3	\$2,500
House 3	1,800	2	\$2,000

As you recall from the SageMaker/ML Terminology video, prediction models use input (Features) to determine output (Target). We are using this data to predict rent for a new house.

In the example above, the entire table of house information can be called our:



In the example above, one particular house can be called our:



In the example above, Area and Bedroom data can be called our:



In the example above, the Rent is our: Target or Label 🕶 You have used 1 of 3 attempts Question 9 1/1 point (graded) What algorithms can you use for supervised learning models such classification and regression? Check all that apply. 🖊 Linear Learner |K-means XGBoost You have used 1 of 3 attempts Question 10 2/2 points (graded) You would like to turn your Amazon SageMaker machine learning models and endpoints into customer-facing applications. You decide to put these on a single web server that can be accessed by customers via a browser. However, you realize that the web server is not inherently scalable; if it receives a lot of traffic, it could run out of CPU or memory. How can you make this approach more scalable and secure? Select 3 answers. Deploy a load balancer and setup autoscaling. Create an IAM Role so the web server can access SageMaker endpoints. Keep operating system and language runtimes for the web server patch secured. Make all customers IAM users so they can access SageMaker endpoints. This sounds like a lot of work. What AWS service can we use to automate server and operating system maintenance, capacity provisioning, and automatic scaling? AWS Lambda

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