Artificial intelligence focuses on classification, while machine learning is about clustering data. Machine learning is a type of artificial intelligence that relies on learning through data. Artificial intelligence is form of unsupervised machine learning. Machine learning and artificial intelligence are the same thing.

Question 2:

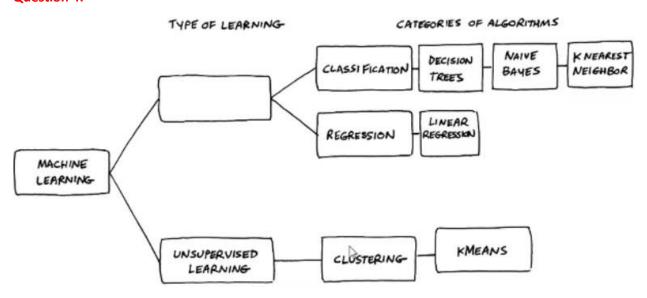
How do machine learning algorithms make more precise predictions?	
The algorithms are typically run more powerful servers.	
The algorithms are better at seeing patterns in the data.	(Correct)
Machine learning servers can host larger databases.	
The algorithms can run on unstructured data.	

Question 3:

You work for an insurance company. Which machine learning project would add the most value for the company!

- $\begin{tabular}{ll} \hline \end{tabular} Create an artificial neural network that would host the company directory. \\ \hline \end{tabular}$
- Use machine learning to better predict risk.
 (Correct)
- Oreate an algorithm that consolidates all of your Excel spreadsheets into one data lake.
- O Use machine learning and big data to research salary requirements.

Question 4:



0	Training Set	
0	Unsupervised Data	
•	Supervised Learning	(Correct)
0	Binary Classification	
	t is one reason not to use the same data for both your training set and ing set?	d your
C	You will almost certainly underfit the model.	
C	You will pick the wrong algorithm.	
С	You might not have enough data for both.	
•	You will almost certainly overfit the model.	(Correct)

What is the missing information in this diagram?

Question 6:

incom might	niversity wants to use machine learning algorithms to help sort thro ing student applications. An administrator asks if the admissions do be biased against any particular group, such as women. What would nswer?	ecisions	
0	Machine learning algorithms are based on math and statistics, and so definition will be unbiased.		
0	There is no way to identify bias in the data.		
0	Machine learning algorithms are powerful enough to eliminate bias data.	from the	
•	All human-created data is biased, and data scientists need to account for that.	(Correct)	
estion 7	:		
What	is stacking?		
What	is stacking?		
What	is stacking? The predictions of one model become the inputs another.	(Correct)	
		(Correct)	
	The predictions of one model become the inputs another.	(Correct)	

Question 8:

•	training data	(Correct
0	linear regression	
0	big data	
0	test data	
ou ar ogs.	e working on a project that involves clustering together You take image and identify it as your centroid image. W	
ou ar	e working on a project that involves clustering together You take image and identify it as your centroid image. W	
ogs.	e working on a project that involves clustering together You take image and identify it as your centroid image. W	
ou ar	e working on a project that involves clustering together You take image and identify it as your centroid image. W	
ou ar	re working on a project that involves clustering together You take image and identify it as your centroid image. W Ing algorithm are you using? centroid reinforcement	

Question 10:

	company wants you to build an internal email text prediction mode ne time that employees spend writing emails. What should you do?	l to speed
•	Include training email data from all employees.	(Correct)
0	Include training email data from new employees.	
0	Include training email data from seasoned employees.	
0	Include training email data from employees who write the majority internal emails.	of of
is the al	ganization allows people to create online professional profiles. A bility to create clusters of people who are professionally connect . What type of machine learning method is used to create these o	ed to one
Your orgis the al	ganization allows people to create online professional profiles. A pility to create clusters of people who are professionally connect	ed to one
Your orgis the all another	ganization allows people to create online professional profiles. A bility to create clusters of people who are professionally connects. What type of machine learning method is used to create these	ed to one clusters?
Your orgis the all another	ganization allows people to create online professional profiles. A bility to create clusters of people who are professionally connects. What type of machine learning method is used to create these cursupervised machine learning	ed to one clusters?

Question 12:

You crea	part of a data science team that is working for a national fast-food chain. ate a simple report that shows trend: Customers who visit the store more nd buy smaller meals spend more than customers who visit less frequently v larger meals. What is the most likely diagram that your team created?
0	multiclass classification diagram
•	linear regression and scatter plots (Correct)
0	pivot table
0	K-means cluster diagram
Your org currentl keyword	Rk for an organization that sells a spam filtering service to large companies. ganization wants to transition its product to use machine learning. It ly a list Of 250,00 keywords. If a message contains more than few of these ds, then it is identified as spam. What would be one advantage of oning to machine learning?
0 1	The product would look for new patterns in spam messages.
0 1	The product could go through the keyword list much more quickly.
0 1	The product could have a much longer keyword list.
•	The product could find spam messages using far fewer keywords. (Correct)

Question 14:

learnii thous	ork for a music streaming service and want to use supervised machining to classify music into different genres. Your service has collected ands of songs in each genre, and you used this as your training data. In ut a small random subset of all the songs in your service. What is this as your training data.	Now you
0	data cluster	
0	Supervised set	
0	big data	
•	test data (Correct)
	15: ditional computer programming, you input commands. What do you i nachine learning?	nput
0	patterns	
0	programs	
0	rules	
•	data	(Correct)

Question 16:

Your company wants to predict whether existing automotive insurance customers are more likely to buy homeowners insurance. It created a model to better predict the best customers contact about homeowners insurance, and the model had a low variance but high bias. What does that say about the data model?		
•	It was consistently wrong.	(Correct)
0	It was inconsistently wrong.	
0	It was consistently right.	
0	It was equally right end wrong.	

Explanation

https://medium.com/datadriveninvestor/bias-and-variance-in-machine-learning-51fdd38d1f86

Question 17:

climate change. To do so, you want to use machine learning algorithms to find patterns that would otherwise be imperceptible to a human meteorologist. What is the place to start?		
0	Find labeled data of sunny days so that the machine will learn to identify bad weather.	
•	Use unsupervised learning have the machine look for anomalies in a massive weather database. (Correct)	
0	Create a training set of unusual patterns and ask the machine learning algorithms to classify them.	
0	Create a training set of normal weather and have the machine look for similar patterns.	

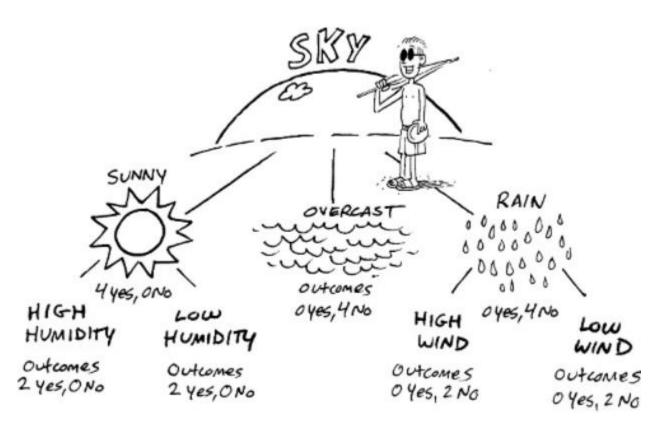
Question 18:

You work in a data science team that wants to improve the accuracy of its K-nearest neighbor result by running on top of a naive Bayes result. What is this an example of?		
0	regression	
0	boosting	
0	bagging	
•	stacking (Correct)
uestion 1	19: looks at the relationship between predictors and your outcome.	
•	Regression analysis	Correct)
0	K-means clustering	
0	Big data	
0	Unsupervised learning	

Question 20:

What is an example of a commercial application for a machine lear	ning system?
a data entry system	
a data warehouse system	
a massive data repository	
a product recommendation system	(Correct)

JOE GOES TO THE BEACH



What does this image illustrate?

•	a decision tree	(Correct)
0	reinforcement learning	
0	K-nearest neighbor	
0	a clear trendline	

Question 22:

These time. \	ork for a power company that owns hundreds of thousands of elect meters are connected to the internet and transmit energy usage da Your supervisor asks you to direct project to use machine learning to sage data. Why are machine learning algorithms ideal in this scenar	ata in real o analyze
0	The algorithms would help the meters access the internet.	
0	The algorithms will improve the wireless connectivity.	
•	The algorithms would help your organization see patterns of the data.	(Correct)
0	By using machine learning algorithms, you are creating an IoT device	e.
estion 2		
lo pr	edict a quantity value. use	
•	regression	(Correct)
0	clustering	
0	clustering	

Question 24:

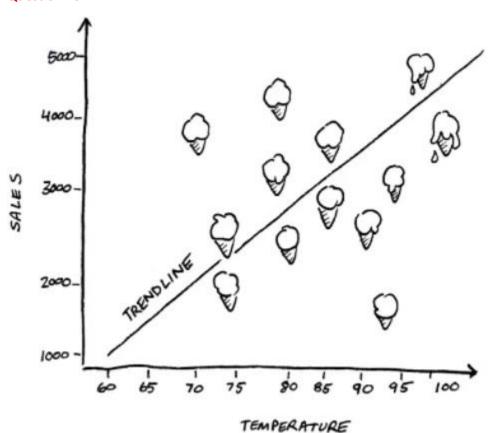
Why is naive Bayes called naive?

- It naively assumes that you will have no data.
- It does not even try to create accurate predictions.
- It naively assumes that the predictors are independent from one another.

(Correct)

O It naively assumes that all the predictors depend on one another.

Question 25:



You work for an ice cream shop and created the chart below, which shows the relationship between the outside temperature and ice cream sales. What is the best description of this chart?

•	It is a linear regression chart.	(Correct)
0	It is a supervised trendline chart.	
0	It is a decision tree.	
0	It is a clustering trend chart.	