Question 1:

wnat	is ensemble modeling?	
0	when you create an ensemble of your training and test data set	
0	when you create an ensemble of different servers to run the algorit	hms
0	when you find the one best algorithm for your ensemble	
•	when you use several ensembles of machine learning algorithms	(Correct)
Questio	n 2 :	
What	is the best definition for bias in your data model?	
0	Bias is when your predicted values are scattered.	
•	Bias is the gap between your predicted value and the outcome.	(Correct)
0	Bias is when your data is wrong for differnet reasons.	
	Bias is when your values are always off by the same percentage.	

Question 3: Which project might be best suited for supervised machine learning? data scrubbing predicting a risk score (Correct) tax filing software spreadsheet consolidation Question 4: When is a decision tree most commonly used? with big data products for supervised machine learning binary classification challenges (Correct)

to find thd best data cluster

to determine "Q" in Q-learning reinforcement learning

Question 5:

is the
Correct)
rning
orrect)

An organisation that owns dozens of shopping malls wants to create a machine

Question 7:

Identify whether true or false: In PCA the number of input dimensions is equal to
principal components.

•	TRUE	(Correct)
0	FALSE	
Questior	n 8:	
Full fo	orm of PAC is	
0	Probably Approx Cost	
•	Probably Approximate Correct	(Correct)
0	Probability Approx Communication	
0	Probably Approximate Computation	

Question 9:

0	Number of Clusters	
0	Number of Data	
0	Number of attributes	
•	Number of iterations	(Correct)
Question Which	n 10: choice is the best example of labeled data?	
•	a spreadsheet	(01)
		(Correct)
0	20,000 recorded voicemail messages	(Correct)
0		(Correct)

Question 11:

0	confidence	
0	alpha	
•	power (C	Correct)
0	significance	
Questior	on 12:	
web. proba proba	want to create a machine learning algorithm to identify food recipes on To do this, you create an algorithm that looks at different conditional abilities. So if the post includes the word flour, it has a slightly stronge ability of being a recipe. If it contains both flour and sugar, it even more be. What type of algorithm are you using?	r
web. proba proba	To do this, you create an algorithm that looks at different conditional abilities. So if the post includes the word flour, it has a slightly stronge ability of being a recipe. If it contains both flour and sugar, it even more be. What type of algorithm are you using?	r
web.	To do this, you create an algorithm that looks at different conditional abilities. So if the post includes the word flour, it has a slightly stronge ability of being a recipe. If it contains both flour and sugar, it even more be. What type of algorithm are you using?	r e likely a
web.	To do this, you create an algorithm that looks at different conditional abilities. So if the post includes the word flour, it has a slightly stronge ability of being a recipe. If it contains both flour and sugar, it even more be. What type of algorithm are you using? naive Bayes classifier	r e likely a

In statistics, what is defined as the probability of a hypothesis test of finding an

Question 13: What is lazy learning? when the machine learning algorithms do most of the programming when you don't do any data scrubbing when the learning happens continuously (Correct) when you run your computation in one big instance at the beginning

Question 14:

What is Q-learning reinforcement learning?
supervised machine learning with rewards
a type of unsupervised learning that relies heavily on a well-established model
a type of reinforcement learning where accuracy degrades over time
a type of reinforcement learning that focuses on rewards (Correct)

Explanation

Q-learning is a model-free reinforcement learning algorithm. Q-learning is a values-based learning algorithm. Value based algorithms updates the value function based on an equation(particularly Bellman equation

Question 15:

The data in your model has low bias and low variance. How would you expect	the
data points to be grouped together on the diagram?	

•	They would be grouped tightly together in the predicted outcome. (Correct)
0	They would be grouped tightly together but far from the predicted.
0	They would be scattered around the predict outcome.
0	They would be scattered far away from the predicted outcome.

Explanation

 $\frac{https://medium.com/30-days-of-machine-learning/day-3-k-nearest-neighbors-and-bias-variance-tradeoff-75f84d515bdb}{tradeoff-75f84d515bdb}$

Question 16:

data, d	nachine learning system is using labeled examples to try to predict future compare that data to the predicted result, and then the model. What is the lescription of this machine learning method?	
0	unsupervised learning	
0	semi-supervised learning	
•	supervised learning (Correct	t)
0	semi-reinforcement learning	

Explanation

https://venturebeat.com/2016/03/16/heres-what-alphagos-historic-win-means-for-the-enterprise/

Question 17:

In the 1983 movie WarGames, the computer learns how to master the game of chess by playing against itself. What machine learning method was the computer using?

0	binary learning	
0	supervised learning	
0	unsupervised learning	
•	reinforcement learning	(Correct)

Explanation

https://venturebeat.com/2016/03/16/heres-what-alphagos-historic-win-means-for-the-enterprise/

Question 18:

0	multiclass binary classification	
•	naive Bayes	(Correct)
0	unsupervised classification	
0	decision tree analysis	
ort dog	ion d use a naïve Bayes algorithm, to differentiate three classes of dog breeds — tel gs. Each class has three predictors — hair length, height, and weight. The algorit ng called class predictor probability.	
oort dog omethin uestion What	d use a naïve Bayes algorithm, to differentiate three classes of dog breeds — tergs. Each class has three predictors — hair length, height, and weight. The algorithm called class predictor probability. 19: is one of the most effective way to correct for underfitting your me	thm does
oort dog omethin uestion	d use a naïve Bayes algorithm, to differentiate three classes of dog breeds — tergs. Each class has three predictors — hair length, height, and weight. The algorithm called class predictor probability. 19: is one of the most effective way to correct for underfitting your me	thm does
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oort dog omethin uestion What	d use a naïve Bayes algorithm, to differentiate three classes of dog breeds — tergs. Each class has three predictors — hair length, height, and weight. The algorithm called class predictor probability. 19: is one of the most effective way to correct for underfitting your meaning. Create training clusters	thm does

Question 20:

obvious. What could you do to help improve the team?				
•	Suggest that the team is probably underfitting the model to the data. (Correct)			
0	Suggest that unsupervised learning will lead to more interesting results.			
0	Make sure that they are picking the correct machine learning algorithms.			
0	Encourage the team to ask more interesting questions.			
Question 21: What is the difference between unstructured and structured data?				
0	Unstructured data is always text.			
0	Unstructured data is much easier to store.			
•	Structured data has clearly defined data types. (Correct)			
0	Sturctured data is much more popular.			

Question 22:

You work for a startup that is trying to develop a software tool that will scan the internet for pictures of people using specific tools. The chief executive is very interested in using machine learning algorithms. What would you recommend as the best place to start?			
0	Using an unsupervised machine learning algorithm to cluster together all the photographs.		
0	Crate a data lake with an unsupervised machine learning algorithm.		
0	Use a combination of unsupervised and supervised machine learning to create machine-defined data clusters.		
•	Use supervised machine learning to classify photographs based on a predetermined training set. (Correct)		
Question 23: In supervised machine learning, data scientist often have the challenge of balancing between underfitting or overfitting their data model. They often have to adjust the training set to make better predictions. What is this balance called?			
0	the under/over challenge		
0	balance between clustering classification		
•	bias-variance trade-off (Correct)		
0	the multiclass training set challenge		

Question 24:

What is conditional probability?				
•	the probability that doing one thing has an impact on another thing	ct)		
0	the probability that certain conditions are met			
0	the probability that, based on certain conditions, something will always be incorrect	=		
0	the probability of something being the correct answer			
Question 25: K-means clustering is what type of machine learning algorithm?				
0	reinforcement			
0	supervised			
•	unsupervised (Correct	:t)		
0	classification			