CloudGuru - Practice Exam - part 1

https://acloud.guru/course/aws-certified-machine-learning-specialty/learn/815265f7-45cc-f370-9add-65c035e6df4d/aws-certified-machine-learning-specialty/watch?backUrl=~2Fcourses







Practice Exam

AWS Certified Machine Learning - Specialty

3 hours 65 questions

The AWS Certified Machine Learning - Specialty (MLS-C01) is intended for individuals who perform a Development or Data Science role. It validates a candidate's ability to design, implement, deploy, and maintain machine learning solutions for given business problems.

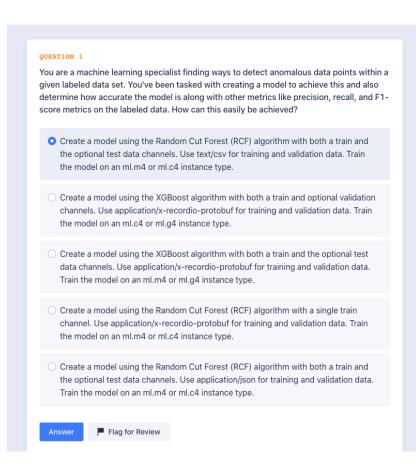
DOMAIN BREAKDOWN

Domain	Percentage
Data Engineering	20%
Exploratory Data Analysis	24%
Modeling	36%
Machine Learning Implementation and Operations	20%

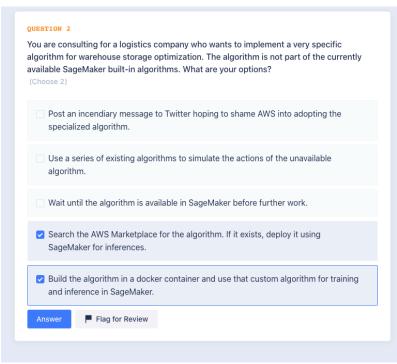
ATTEMPT HISTORY

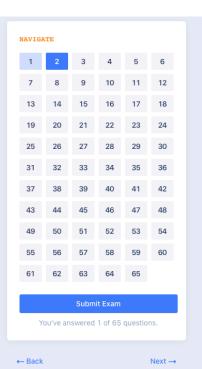
You haven't attempted this exam yet.

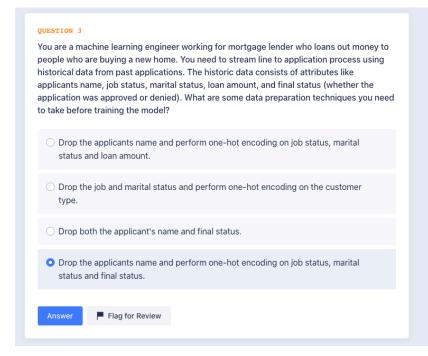
Start Practice Exam

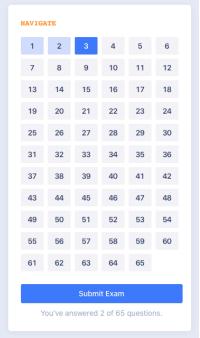


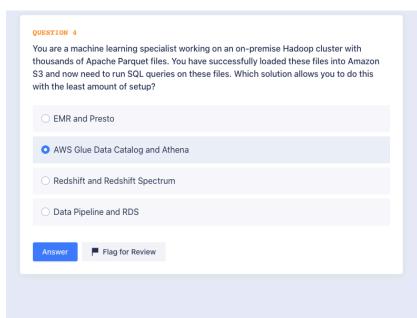




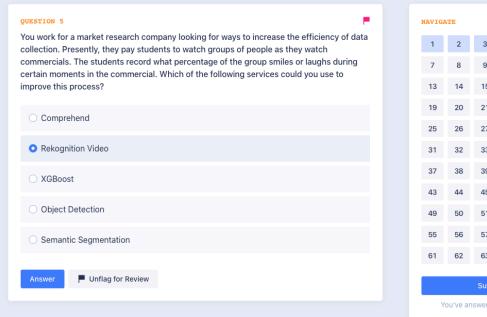


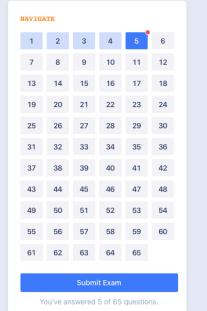


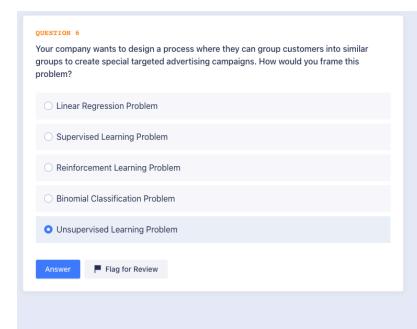


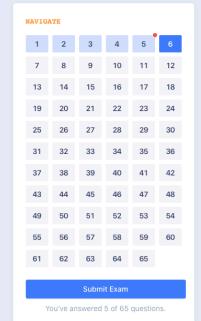


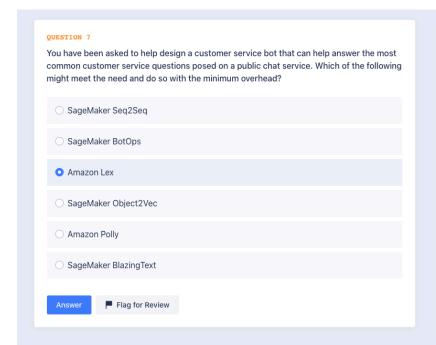


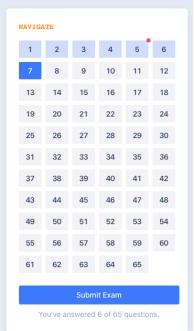












You have a data set with one column missing 30% of its data. You notice that the missing features can be determined from other features in the data set. What can you do to replace the values that will cause least amount of bias?

or removing the items with missing values

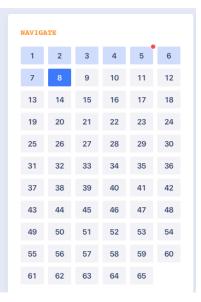
multiple data imputations

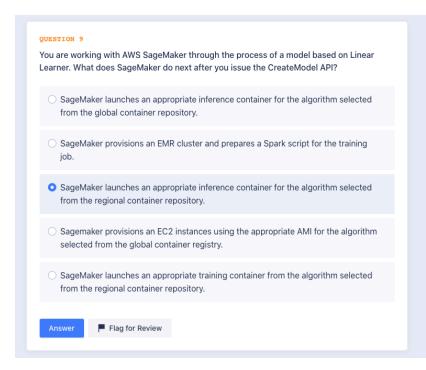
use mean value

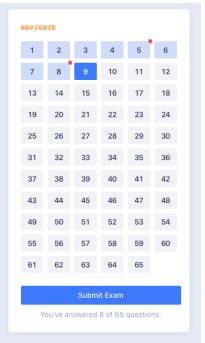
last observed carried forward

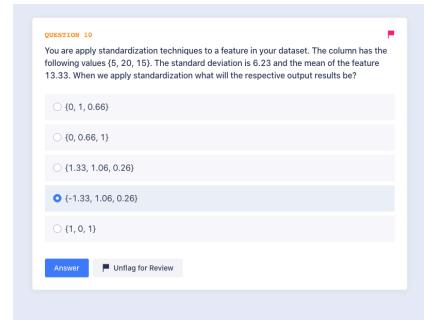
Answer

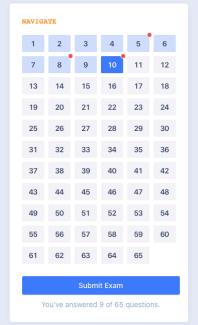
Flag for Review

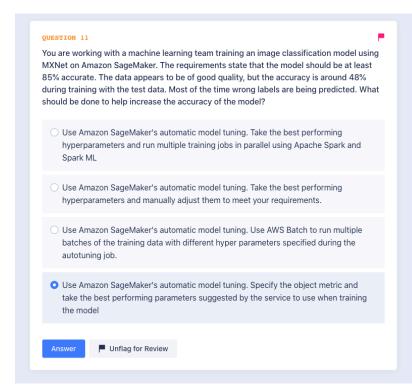




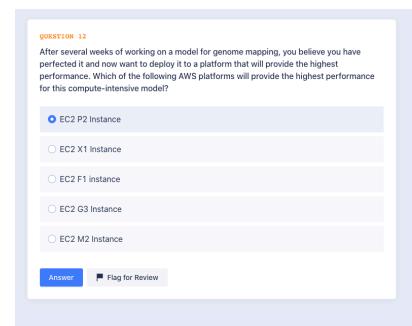


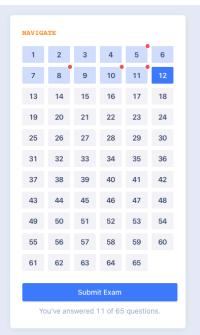


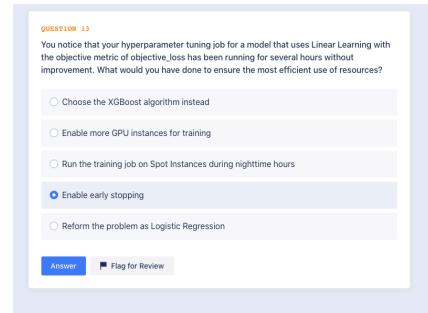


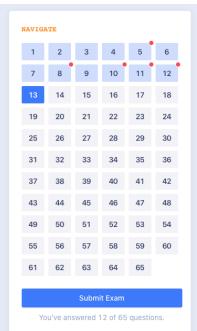












You are a machine learning engineer on a team that is designing a deep sea exploration robot which will explore areas never before visited. The robot will be so deep that it's impractical to send commands for every motion. Rather then robot needs to know how to navigate among obstacles itself while collecting data. How would you frame this problem?

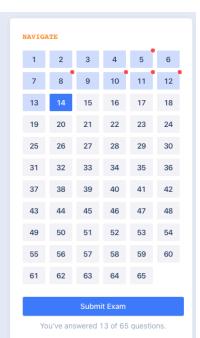
This problem is not suitable for machine learning.

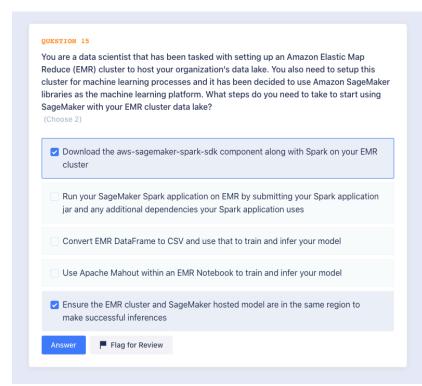
Heuristic Learning Problem

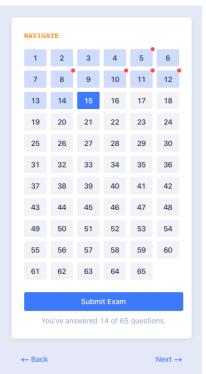
Object Detection Problem

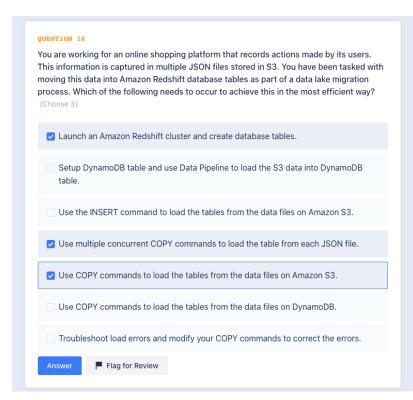
Reinforcement Learning Problem

Supervised Learning Problem

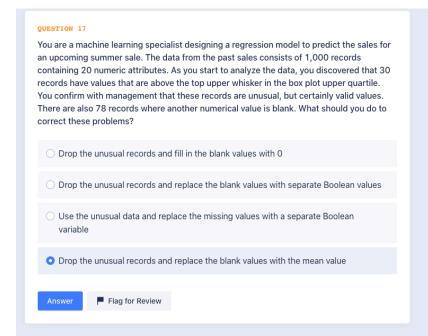


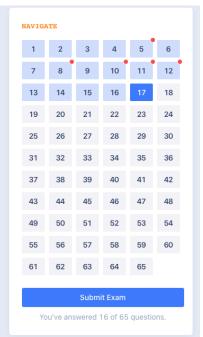












You want to design a model that will predict the price of a used car based on attributes of the car as a linear regression model. Which of the following algorithms could you use for your car price prediction model?

(Choose 2)

BlazingText

Linear Learner

NTM

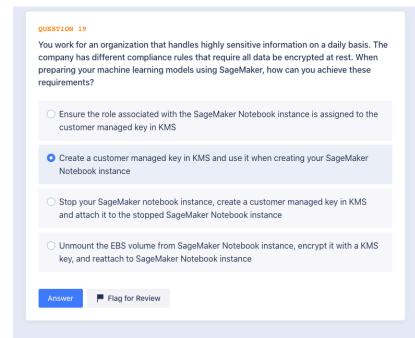
Seq2Seq

XGBoost

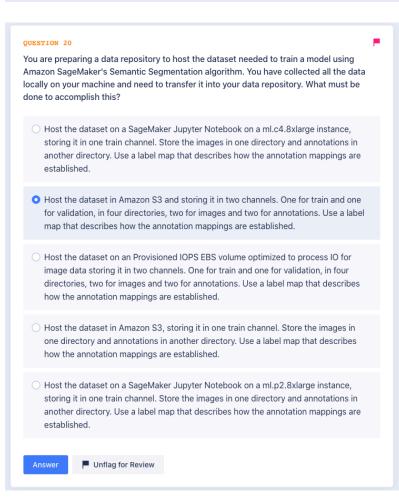
Answer

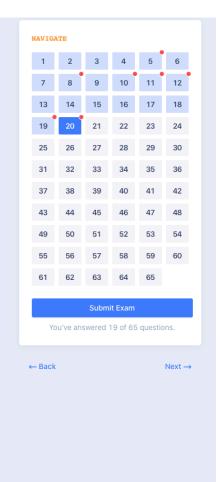
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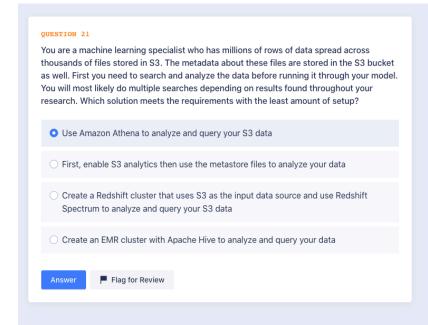




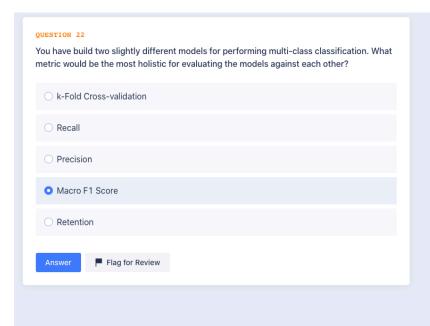


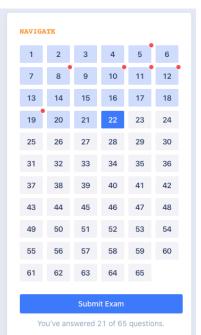


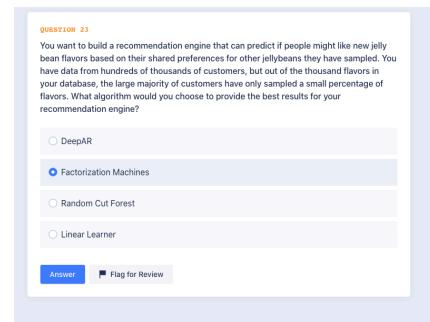


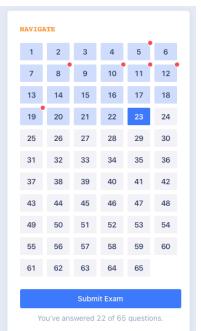


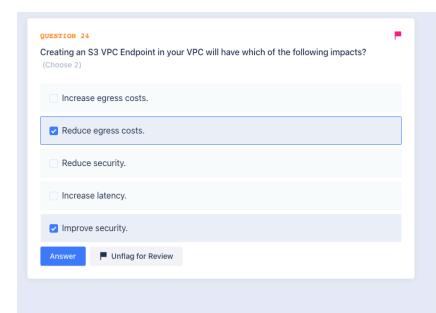


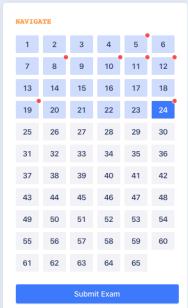




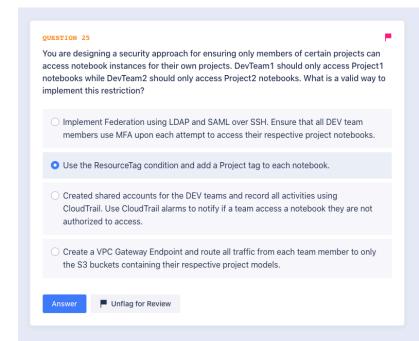


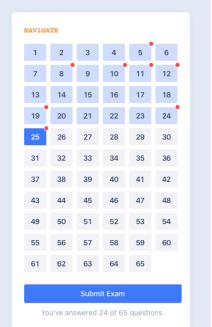






You've answered 23 of 65 questions.





How might you frame an ML approach for predicting if a random number generator will return a 1 or 0 given that the number generator is perfectly random and you are provided with 1000 prior number selections?

Forecasting

Logical Regression

Binary Classification

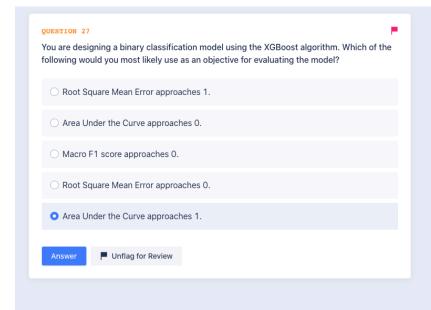
Machine Learning not needed

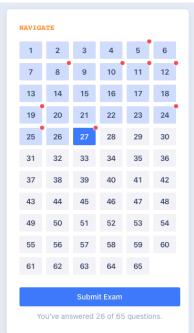
Linear Regression

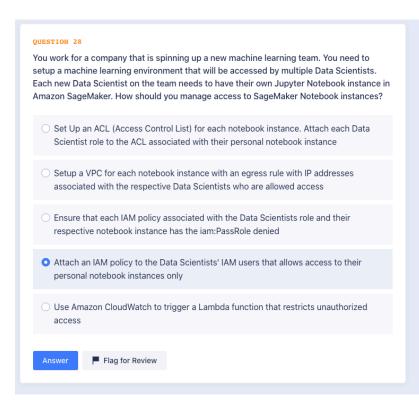
Answer

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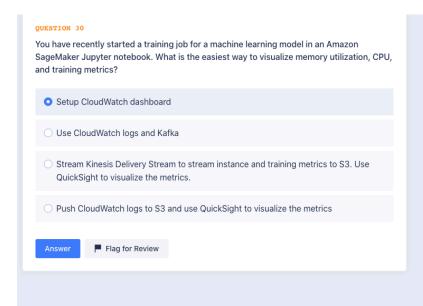




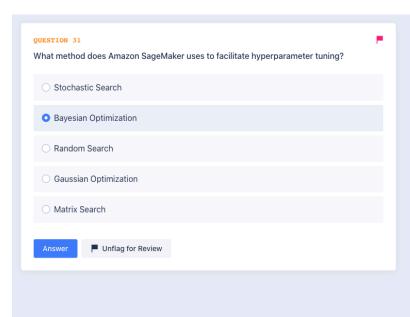




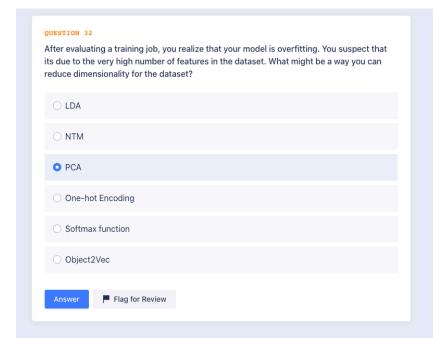


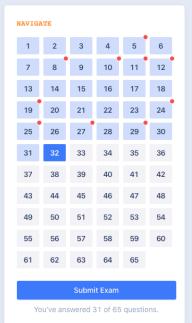


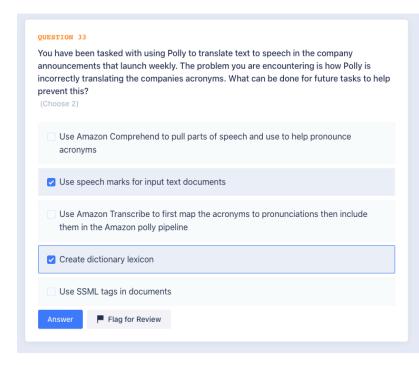




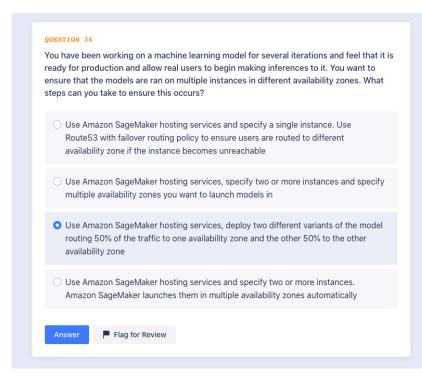














QUESTION 34 You have been working on a machine learning model for several iterations and feel that it is ready for production and allow real users to begin making inferences to it. You want to ensure that the models are ran on multiple instances in different availability zones. What steps can you take to ensure this occurs? Use Amazon SageMaker hosting services and specify a single instance. Use Route 53 with failover routing policy to ensure users are routed to different availability zone if the instance becomes unreachable Use Amazon SageMaker hosting services, specify two or more instances and specify multiple availability zones you want to launch models in Use Amazon SageMaker hosting services, deploy two different variants of the model routing 50% of the traffic to one availability zone and the other 50% to the other availability zone Use Amazon SageMaker hosting services and specify two or more instances. Amazon SageMaker launches them in multiple availability zones automatically Flag for Review



