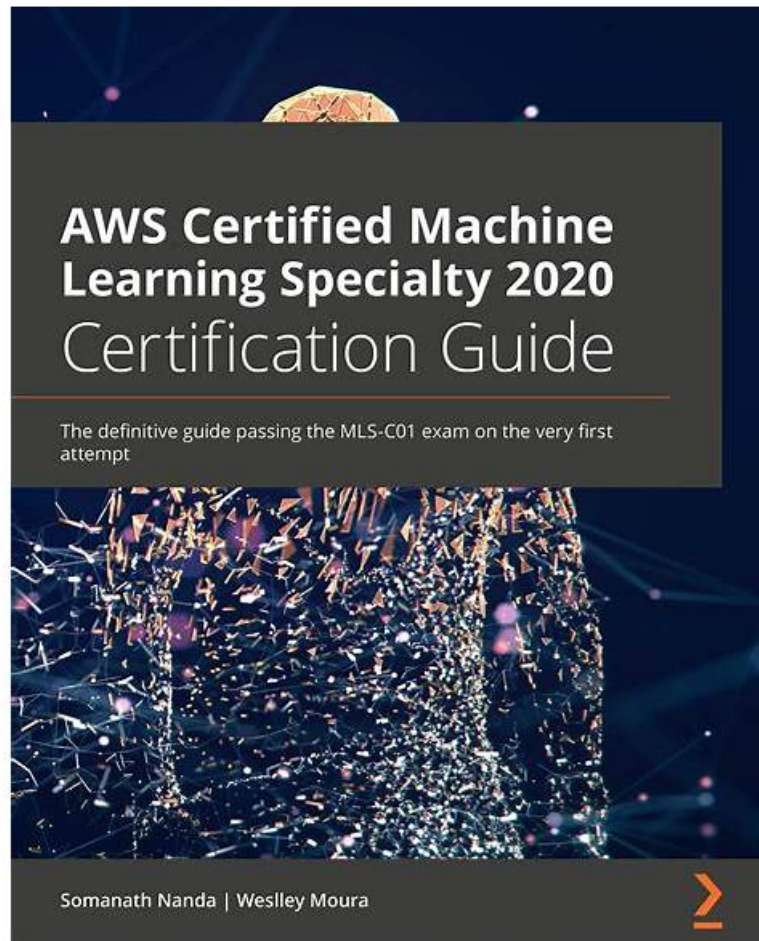


Free PDF Amazon First-grade MLS-C01 - AWS Certified Machine Learning - Specialty Passed



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Amazon MLS-C01 (AWS Certified Machine Learning - Specialty) Exam is a certification exam designed for individuals who are seeking to validate their skills and knowledge in machine learning on the Amazon Web Services (AWS) platform. MLS-C01 exam is aimed at professionals who have experience in designing, implementing, deploying, and maintaining machine learning solutions using AWS services.

Advantages of AWS Certified Machine Learning Specialty Exam

- Amazon AWS Certified Machine Learning Specialty provide opportunities to get a job easily in which they are interested in instead of wasting years and ending without getting any experience.
- Amazon AWS Certified Machine Learning Specialty has more useful and relevant networks that help them in setting career goals for themselves. Amazon Certified Operational Decision Manager networks provide them with the right career direction than non certified usually are unable to get.
- Amazon AWS Certified Machine Learning Specialty is distinguished among competitors. Amazon AWS Certified Machine Learning Specialty can give them an edge at that time easily when candidates appear for a job interview employers seek to

notify something which differentiates the individual to another.

- AmazonAWS Certified Machine Learning Specialty provides practical experience to candidates from all the aspects to be a proficient worker in the organization.
- Amazon AWS Certified Machine Learning Specialty will be confident and stand different from others as their skills are more trained than non-certified professionals.

>> MLS-C01 Passed <<

MLS-C01 Valid Test Format & Reliable MLS-C01 Exam Pattern

As for candidates who possessed with a MLS-C01 professional certification are more competitive. The current word is a stage of science and technology, social media and social networking has already become a popular means of MLS-C01 exam materials. As a result, more and more people study or prepare for exam through social networking. By this way, our MLS-C01 learning guide can be your best learn partner. The pass rate of our MLS-C01 exam questions is high as 99% to 100%, and it is a wise choice to have our MLS-C01 training guide.

Amazon AWS Certified Machine Learning - Specialty Sample Questions (Q206-Q211):

NEW QUESTION # 206

A Machine Learning Specialist is building a model to predict future employment rates based on a wide range of economic factors. While exploring the data, the Specialist notices that the magnitude of the input features vary greatly. The Specialist does not want variables with a larger magnitude to dominate the model. What should the Specialist do to prepare the data for model training?

- A. Apply normalization to ensure each field will have a mean of 0 and a variance of 1 to remove any significant magnitude.
- B. Apply the orthogonal sparse Diagram (OSB) transformation to apply a fixed-size sliding window to generate new features of a similar magnitude.
- C. Apply quantile binning to group the data into categorical bins to keep any relationships in the data by replacing the magnitude with distribution.
- D. Apply the Cartesian product transformation to create new combinations of fields that are independent of the magnitude.

Answer: A

NEW QUESTION # 207

An office security agency conducted a successful pilot using 100 cameras installed at key locations within the main office. Images from the cameras were uploaded to Amazon S3 and tagged using Amazon Rekognition, and the results were stored in Amazon ES. The agency is now looking to expand the pilot into a full production system using thousands of video cameras in its office locations globally. The goal is to identify activities performed by non-employees in real time. Which solution should the agency consider?

- A. Install AWS DeepLens cameras and use the DeepLens_Kinesis_Video module to stream video to Amazon Kinesis Video Streams for each camera. On each stream, use Amazon Rekognition Video and create a stream processor to detect faces from a collection on each stream, and alert when nonemployees are detected.
- B. Use a proxy server at each local office and for each camera, and stream the RTSP feed to a unique Amazon Kinesis Video Streams video stream. On each stream, use Amazon Rekognition Image to detect faces from a collection of known employees and alert when non-employees are detected.
- C. Use a proxy server at each local office and for each camera, and stream the RTSP feed to a unique Amazon Kinesis Video Streams video stream. On each stream, use Amazon Rekognition Video and create a stream processor to detect faces from a collection of known employees, and alert when non-employees are detected.
- D. Install AWS DeepLens cameras and use the DeepLens_Kinesis_Video module to stream video to Amazon Kinesis Video Streams for each camera. On each stream, run an AWS Lambda function to capture image fragments and then call Amazon Rekognition Image to detect faces from a collection of known employees, and alert when non-employees are detected.

Answer: A

NEW QUESTION # 208

A medical imaging company wants to train a computer vision model to detect areas of concern on patients' CT scans. The company has a large collection of unlabeled CT scans that are linked to each patient and stored in an Amazon S3 bucket. The scans must be accessible to authorized users only. A machine learning engineer needs to build a labeling pipeline. Which set of steps should the engineer take to build the labeling pipeline with the LEAST effort?

- A. Create a workforce with AWS Identity and Access Management (IAM). Build a labeling tool on Amazon EC2 Queue images for labeling by using Amazon Simple Queue Service (Amazon SQS). Write the labeling instructions.
- B. Create an Amazon Mechanical Turk workforce and manifest file. Create a labeling job by using the built-in image classification task type in Amazon SageMaker Ground Truth. Write the labeling instructions.
- **C. Create a private workforce and manifest file. Create a labeling job by using the built-in bounding box task type in Amazon SageMaker Ground Truth. Write the labeling instructions.**
- D. Create a workforce with Amazon Cognito. Build a labeling web application with AWS Amplify. Build a labeling workflow backend using AWS Lambda. Write the labeling instructions.

Answer: C

Explanation:

The engineer should create a private workforce and manifest file, and then create a labeling job by using the built-in bounding box task type in Amazon SageMaker Ground Truth. This will allow the engineer to build the labeling pipeline with the least effort.

A private workforce is a group of workers that you manage and who have access to your labeling tasks. You can use a private workforce to label sensitive data that requires confidentiality, such as medical images. You can create a private workforce by using Amazon Cognito and inviting workers by email. You can also use AWS Single Sign-On or your own authentication system to manage your private workforce.

A manifest file is a JSON file that lists the Amazon S3 locations of your input data. You can use a manifest file to specify the data objects that you want to label in your labeling job. You can create a manifest file by using the AWS CLI, the AWS SDK, or the Amazon SageMaker console.

A labeling job is a process that sends your input data to workers for labeling. You can use the Amazon SageMaker console to create a labeling job and choose from several built-in task types, such as image classification, text classification, semantic segmentation, and bounding box. A bounding box task type allows workers to draw boxes around objects in an image and assign labels to them. This is suitable for object detection tasks, such as identifying areas of concern on CT scans.

Create and Manage Workforces - Amazon SageMaker

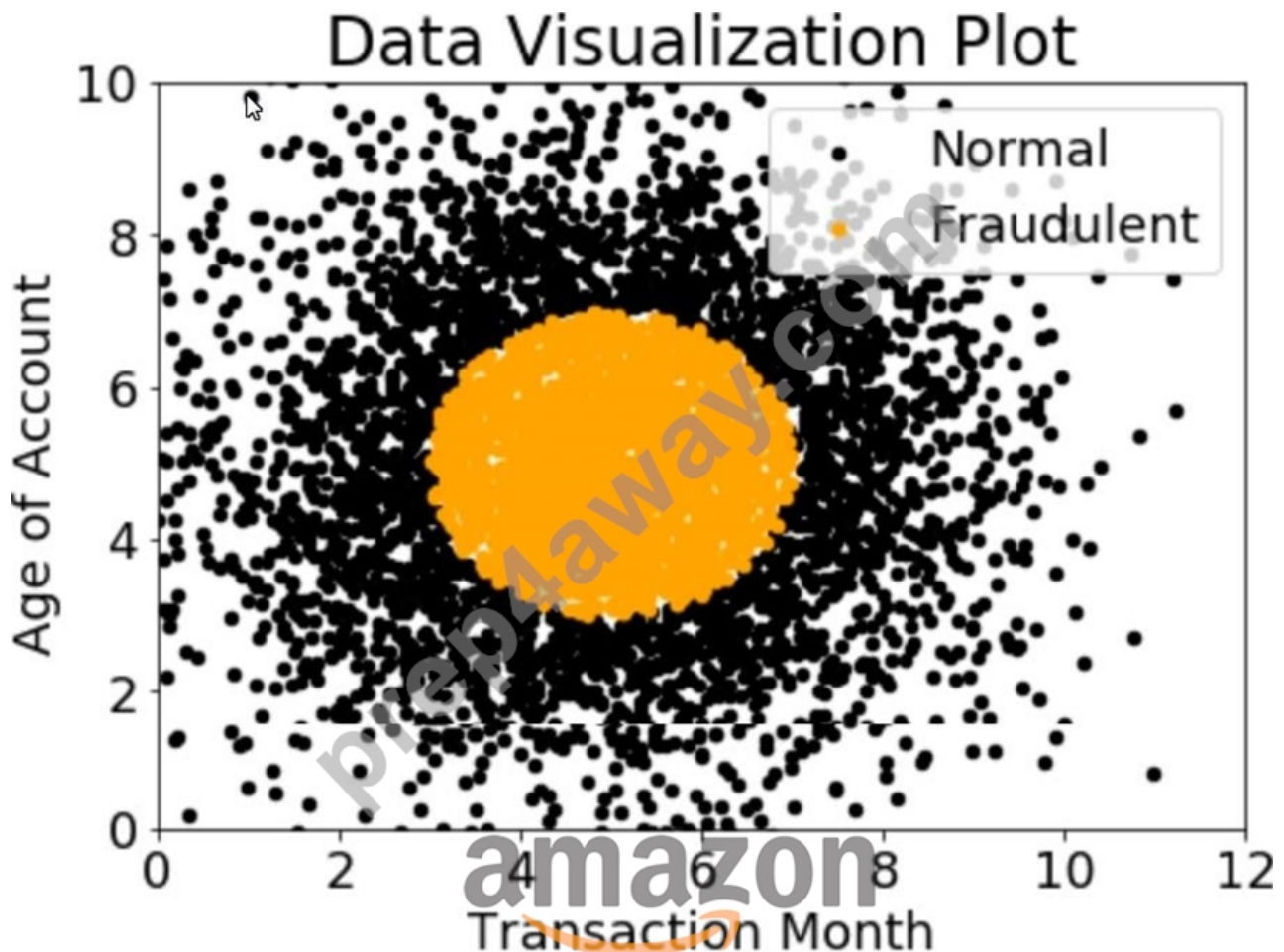
Use Input and Output Data - Amazon SageMaker

Create a Labeling Job - Amazon SageMaker

Bounding Box Task Type - Amazon SageMaker

NEW QUESTION # 209

A company wants to classify user behavior as either fraudulent or normal. Based on internal research, a Machine Learning Specialist would like to build a binary classifier based on two features: age of account and transaction month. The class distribution for these features is illustrated in the figure provided.



Based on this information, which model would have the HIGHEST recall with respect to the fraudulent class?

- A. Linear support vector machine (SVM)
- **B. Naive Bayesian classifier**
- C. Decision tree
- D. Single Perceptron with sigmoidal activation function

Answer: B

NEW QUESTION # 210

A telecommunications company is developing a mobile app for its customers. The company is using an Amazon SageMaker hosted endpoint for machine learning model inferences.

Developers want to introduce a new version of the model for a limited number of users who subscribed to a preview feature of the app. After the new version of the model is tested as a preview, developers will evaluate its accuracy. If a new version of the model has better accuracy, developers need to be able to gradually release the new version for all users over a fixed period of time.

How can the company implement the testing model with the LEAST amount of operational overhead?

- A. Configure two SageMaker hosted endpoints that serve the different versions of the model. Create an Application Load Balancer (ALB) to route traffic to both endpoints based on the TargetVariant query string parameter. Reconfigure the app to send the TargetVariant query string parameter for users who subscribed to the preview feature. When the new version of the model is ready for release, change the ALB's routing algorithm to weighted until all users have the updated version.
- B. Configure two SageMaker hosted endpoints that serve the different versions of the model. Create an Amazon Route 53 record that is configured with a simple routing policy and that points to the current version of the model. Configure the mobile app to use the endpoint URL for users who subscribed to the preview feature and to use the Route 53 record for other users. When the new version of the model is ready for release, add a new model version endpoint to Route 53, and switch the policy to weighted until all users have the updated version.
- **C. Update the DesiredWeightsAndCapacity data type with the new version of the model by using the UpdateEndpointWeightsAndCapacities operation with the DesiredWeight parameter set to 0. Specify the TargetVariant parameter for InvokeEndpoint calls for users who subscribed to the preview feature. When the new version of the model is ready for release, gradually increase DesiredWeight until all users have the updated**

version.

- D. Update the ProductionVariant data type with the new version of the model by using the CreateEndpointConfig operation with the InitialVariantWeight parameter set to 0. Specify the TargetVariant parameter for InvokeEndpoint calls for users who subscribed to the preview feature.

When the new version of the model is ready for release, gradually increase InitialVariantWeight until all users have the updated version.

Answer: C

Explanation:

The best solution for implementing the testing model with the least amount of operational overhead is to use the following steps:

- * Update the DesiredWeightsAndCapacity data type with the new version of the model by using the

UpdateEndpointWeightsAndCapacities operation with the DesiredWeight parameter set to 0. This operation allows the developers to update the variant weights and capacities of an existing SageMaker endpoint without deleting and recreating the endpoint. Setting the DesiredWeight parameter to 0 means that the new version of the model will not receive any traffic initially¹

- * Specify the TargetVariant parameter for InvokeEndpoint calls for users who subscribed to the preview feature. This parameter allows the developers to override the variant weights and direct a request to a specific variant. This way, the developers can test the new version of the model for a limited number of users who opted in for the preview feature²

- * When the new version of the model is ready for release, gradually increase DesiredWeight until all users have the updated version. This operation allows the developers to perform a gradual rollout of the new version of the model and monitor its performance and accuracy. The developers can adjust the variant weights and capacities as needed until the new version of the model serves all the traffic¹ The other options are incorrect because they either require more operational overhead or do not support the desired use cases. For example:

- * Option A uses the CreateEndpointConfig operation with the InitialVariantWeight parameter set to 0.

This operation creates a new endpoint configuration, which requires deleting and recreating the endpoint to apply the changes. This adds extra overhead and downtime for the endpoint. It also does not support the gradual rollout of the new version of the model³

- * Option B uses two SageMaker hosted endpoints that serve the different versions of the model and an Application Load Balancer (ALB) to route traffic to both endpoints based on the TargetVariant query string parameter. This option requires creating and managing additional resources and services, such as the second endpoint and the ALB. It also requires changing the app code to send the query string parameter for the preview feature⁴

- * Option D uses the access key and secret key of the IAM user with appropriate KMS and ECR permissions. This is not a secure way to pass credentials to the Processing job. It also requires the ML specialist to manage the IAM user and the keys.

References:

- * 1: UpdateEndpointWeightsAndCapacities - Amazon SageMaker
- * 2: InvokeEndpoint - Amazon SageMaker
- * 3: CreateEndpointConfig - Amazon SageMaker
- * 4: Application Load Balancer - Elastic Load Balancing

NEW QUESTION # 211

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The MLS-C01 web-based practice test can accessed online. It means the exam candidates can access it from the browsers like Firefox, Microsoft Edge, Google Chrome, and Safari. The user don't need to install or download any excessive plugins to take the AWS Certified Machine Learning - Specialty (MLS-C01) practice test. Mac, Windows, iOS, Android, and Linux support it. The third and last format is the desktop practice test software. The AWS Certified Machine Learning - Specialty (MLS-C01) desktop practice test format can be used on Windows computers.

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