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To earn the AWS Certified Machine Learning - Specialty certification, candidates must have a strong understanding of machine learning algorithms, data preprocessing, and feature engineering. They should also have experience working with AWS services such as Amazon SageMaker, AWS Glue, and AWS Kinesis. Additionally, candidates should be familiar with deep learning frameworks such as TensorFlow, Keras, and PyTorch. MLS-C01 Exam covers a range of topics including machine learning algorithms, data modeling and evaluation, and deployment strategies. Passing the exam demonstrates that an individual has the skills and knowledge necessary to implement machine learning solutions on AWS.

Amazon AWS-Certified-Machine-Learning-Specialty (AWS Certified Machine Learning - Specialty) certification exam is designed for individuals who want to demonstrate their expertise in building, deploying, and managing machine learning (ML) solutions on the Amazon Web Services (AWS) platform. AWS Certified Machine Learning - Specialty certification validates the knowledge and skills required to design and implement ML models using AWS services and tools.

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It has a lot of advantages. Giving yourself more time to prepare for the Amazon MLS-C01 exam questions using it will allow you to obtain your MLS-C01 certification. It is one of the major reasons many people prefer buying AWS Certified Machine Learning - Specialty MLS-C01 Exam Dumps preparation material. It was designed by the best Amazon Exam Questions who took the time to

prepare it.

Amazon MLS-C01 (AWS Certified Machine Learning - Specialty) certification exam is designed to test the skills and knowledge of individuals who want to work with machine learning on the AWS platform. MLS-C01 exam is intended for individuals who already have experience with AWS services and are looking to specialize in the field of machine learning. AWS Certified Machine Learning - Specialty certification exam covers a wide range of topics, including data engineering, data analysis, machine learning algorithms, and model optimization.

Amazon AWS Certified Machine Learning - Specialty Sample Questions (Q284-Q289):

NEW QUESTION # 284

A company is building a line-counting application for use in a quick-service restaurant. The company wants to use video cameras pointed at the line of customers at a given register to measure how many people are in line and deliver notifications to managers if the line grows too long. The restaurant locations have limited bandwidth for connections to external services and cannot accommodate multiple video streams without impacting other operations.

Which solution should a machine learning specialist implement to meet these requirements?

- A. Build a custom model in Amazon SageMaker to recognize the number of people in an image. Deploy AWS DeepLens cameras in the restaurant. Deploy the model to the cameras. Deploy an AWS Lambda function to the cameras to use the model to count people and send an Amazon Simple Notification Service (Amazon SNS) notification if the line is too long.
- B. Build a custom model in Amazon SageMaker to recognize the number of people in an image. Install cameras compatible with Amazon Kinesis Video Streams in the restaurant. Write an AWS Lambda function to take an image. Use the SageMaker endpoint to call the model to count people. Send an Amazon Simple Notification Service (Amazon SNS) notification if the line is too long.
- C. Deploy AWS DeepLens cameras in the restaurant to capture video. Enable Amazon Rekognition on the AWS DeepLens device, and use it to trigger a local AWS Lambda function when a person is recognized. Use the Lambda function to send an Amazon Simple Notification Service (Amazon SNS) notification if the line is too long.
- D. Install cameras compatible with Amazon Kinesis Video Streams to stream the data to AWS over the restaurant's existing internet connection. Write an AWS Lambda function to take an image and send it to Amazon Rekognition to count the number of faces in the image. Send an Amazon Simple Notification Service (Amazon SNS) notification if the line is too long.

Answer: A

Explanation:

The best solution for building a line-counting application for use in a quick-service restaurant is to use the following steps:

- * Build a custom model in Amazon SageMaker to recognize the number of people in an image. Amazon SageMaker is a fully managed service that provides tools and workflows for building, training, and deploying machine learning models. A custom model can be tailored to the specific use case of line-counting and achieve higher accuracy than a generic model¹
- * Deploy AWS DeepLens cameras in the restaurant to capture video. AWS DeepLens is a wireless video camera that integrates with Amazon SageMaker and AWS Lambda. It can run machine learning inference locally on the device without requiring internet connectivity or streaming video to the cloud. This reduces the bandwidth consumption and latency of the application²
- * Deploy the model to the cameras. AWS DeepLens allows users to deploy trained models from Amazon SageMaker to the cameras with a few clicks. The cameras can then use the model to process the video frames and count the number of people in each frame²
- * Deploy an AWS Lambda function to the cameras to use the model to count people and send an Amazon Simple Notification Service (Amazon SNS) notification if the line is too long. AWS Lambda is a serverless computing service that lets users run code without provisioning or managing servers. AWS DeepLens supports running Lambda functions on the device to perform actions based on the inference results. Amazon SNS is a service that enables users to send notifications to subscribers via email, SMS, or mobile push²³ The other options are incorrect because they either require internet connectivity or streaming video to the cloud, which may impact the bandwidth and performance of the application. For example:
 - * Option A uses Amazon Kinesis Video Streams to stream the data to AWS over the restaurant's existing internet connection. Amazon Kinesis Video Streams is a service that enables users to capture, process, and store video streams for analytics and machine learning. However, this option requires streaming multiple video streams to the cloud, which may consume a lot of bandwidth and cause network congestion. It also requires internet connectivity, which may not be reliable or available in some locations⁴
 - * Option B uses Amazon Rekognition on the AWS DeepLens device. Amazon Rekognition is a service that provides computer vision capabilities, such as face detection, face recognition, and object detection. However, this option requires calling the Amazon Rekognition API over the internet, which may introduce latency and require bandwidth. It also uses a generic face detection model, which may not be optimized for the line-counting use case.
 - * Option C uses Amazon SageMaker to build a custom model and an Amazon SageMaker endpoint to call the model. Amazon

SageMaker endpoints are hosted web services that allow users to perform inference on their models. However, this option requires sending the images to the endpoint over the internet, which may consume bandwidth and introduce latency. It also requires internet connectivity, which may not be reliable or available in some locations.

References:

- * 1: Amazon SageMaker - Machine Learning Service - AWS
- * 2: AWS DeepLens - Deep learning enabled video camera - AWS
- * 3: Amazon Simple Notification Service (SNS) - AWS
- * 4: Amazon Kinesis Video Streams - Amazon Web Services
- * : Amazon Rekognition - Video and Image - AWS
- * : Deploy a Model - Amazon SageMaker

NEW QUESTION # 285

A data scientist is building a linear regression model. The scientist inspects the dataset and notices that the mode of the distribution is lower than the median, and the median is lower than the mean.

Which data transformation will give the data scientist the ability to apply a linear regression model?

- **A. Logarithmic transformation**
- B. Sinusoidal transformation
- C. Exponential transformation
- D. Polynomial transformation

Answer: A

Explanation:

Explanation

A logarithmic transformation is a suitable data transformation for a linear regression model when the data has a skewed distribution, such as when the mode is lower than the median and the median is lower than the mean.

A logarithmic transformation can reduce the skewness and make the data more symmetric and normally distributed, which are desirable properties for linear regression. A logarithmic transformation can also reduce the effect of outliers and heteroscedasticity (unequal variance) in the data. An exponential transformation would have the opposite effect of increasing the skewness and making the data more asymmetric. A polynomial transformation may not be able to capture the nonlinearity in the data and may introduce multicollinearity among the transformed variables. A sinusoidal transformation is not appropriate for data that does not have a periodic pattern.

References:

Data Transformation - Scaler Topics

Linear Regression - GeeksforGeeks

Linear Regression - Scribbr

NEW QUESTION # 286

A Machine Learning Specialist needs to create a data repository to hold a large amount of time-based training data for a new model. In the source system, new files are added every hour. Throughout a single 24-hour period, the volume of hourly updates will change significantly. The Specialist always wants to train on the last

24 hours of the data

Which type of data repository is the MOST cost-effective solution?

- A. An Amazon EBS-backed Amazon EC2 instance with hourly directories
- **B. An Amazon S3 data lake with hourly object prefixes**
- C. An Amazon EMR cluster with hourly hive partitions on Amazon EBS volumes
- D. An Amazon RDS database with hourly table partitions

Answer: B

NEW QUESTION # 287

A data scientist is using an Amazon SageMaker notebook instance and needs to securely access data stored in a specific Amazon S3 bucket.

How should the data scientist accomplish this?

- A. Use a script in a lifecycle configuration to configure the AWS CLI on the instance with an access key ID and secret.
- **B. Attach the policy to the IAM role associated with the notebook that allows GetObject, PutObject, and ListBucket operations to the specific S3 bucket.**
- C. Encrypt the objects in the S3 bucket with a custom AWS Key Management Service (AWS KMS) key that only the notebook owner has access to.
- D. Add an S3 bucket policy allowing GetObject, PutObject, and ListBucket permissions to the Amazon SageMaker notebook ARN as principal.

Answer: B

NEW QUESTION # 288

A Machine Learning Specialist previously trained a logistic regression model using scikit-learn on a local machine, and the Specialist now wants to deploy it to production for inference only.

What steps should be taken to ensure Amazon SageMaker can host a model that was trained locally?

- A. Build the Docker image with the inference code. Tag the Docker image with the registry hostname and upload it to Amazon ECR.
- B. Serialize the trained model so the format is compressed for deployment. Tag the Docker image with the registry hostname and upload it to Amazon S3.
- C. Serialize the trained model so the format is compressed for deployment. Build the image and upload it to Docker Hub.
- **D. Build the Docker image with the inference code. Configure Docker Hub and upload the image to Amazon ECR.**

Answer: D

NEW QUESTION # 289

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