

AWS-Certified-Machine-Learning-Specialty受験料過去問 - AWS Certified Machine Learning - Specialty永遠にパスします



BONUS!!! Xhs1991 AWS-Certified-Machine-Learning-Specialtyダンプの一部を無料でダウンロード
ド: https://drive.google.com/open?id=1cNZ_3Vx9x6xFT_IOopbAapAGIDGVeLWR

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Amazon MLS-C01認定試験は、個人が機械学習およびAWSサービスの専門知識を実証する優れた方法です。この認定は業界で高く評価されており、個人が自分のキャリアを前進させるのに役立ちます。機械学習のキャリアを追求することに興味がある場合は、MLS-C01認定を開始するのに最適な場所です。

>> AWS-Certified-Machine-Learning-Specialty受験料過去問 <<

試験の準備方法-信頼的なAWS-Certified-Machine-Learning-Specialty受験料過去問試験-素晴らしいAWS-Certified-Machine-Learning-Specialty模擬問題集

まだどのようにAmazon AWS-Certified-Machine-Learning-Specialty資格認定試験にパスすると悩んでいますか。現時点で我々サイトXhs1991を通して、ようやくこの問題を心配することがありませんよ。Xhs1991は数年にわたりAmazon AWS-Certified-Machine-Learning-Specialty資格認定試験の研究に取り組んで、量豊かな問題庫があるし、豊富な経験を持ってあなたが認定試験に効率的に合格するのを助けます。AWS-Certified-Machine-Learning-Specialty資格認定試験に合格できるかどうかには、重要なのは正確の方法で、復習教材の量ではありません。だから、Xhs1991はあなたがAmazon AWS-Certified-Machine-Learning-Specialty資格認定試験にパスする正確の方法です。

AWS認定機械学習 - 専門試験では、データの準備や機能エンジニアリング、モデルトレーニングと評価、展開と実装、監視とトラブルシューティングなど、機械学習に関連する幅広いトピックをカバーしています。この試験に合格した候補者は、機械学習の概念とテクニック、およびAWSサービスを使用して実際のシナリオに適用する能力を深く理解することが期待されています。

Amazon AWS Certified Machine Learning - Specialty 認定 AWS-Certified-Machine-Learning-Specialty 試験問題 (Q115-Q120):

質問 # 115

A city wants to monitor its air quality to address the consequences of air pollution A Machine Learning Specialist needs to forecast the air quality in parts per million of contaminates for the next 2 days in the city As this is a prototype, only daily data from the last year is available Which model is MOST likely to provide the best results in Amazon SageMaker?

- A. Use the Amazon SageMaker k-Nearest-Neighbors (kNN) algorithm on the single time series consisting of the full year of

data with a predictor_type of regressor.

- B. Use the Amazon SageMaker Linear Learner algorithm on the single time series consisting of the full year of data with a predictor_type of regressor
- C. Use Amazon SageMaker Random Cut Forest (RCF) on the single time series consisting of the full year of data
- D. Use the Amazon SageMaker Linear Learner algorithm on the single time series consisting of the full year of data with a predictor_type of classifier

正解: A

質問 # 116

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. 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.
- 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. 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.

正解: C

解説:

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

質問 # 117

A retail company is selling products through a global online marketplace. The company wants to use machine learning (ML) to analyze customer feedback and identify specific areas for improvement. A developer has built a tool that collects customer reviews from the online marketplace and stores them in an Amazon S3 bucket. This process yields a dataset of 40 reviews. A data scientist building the ML models must identify additional sources of data to increase the size of the dataset.

Which data sources should the data scientist use to augment the dataset of reviews? (Choose three.)

- A. Product sales revenue figures for the company
- **B. Emails exchanged by customers and the company's customer service agents**
- **C. A publicly available collection of customer reviews**
- D. A publicly available collection of news articles
- **E. Social media posts containing the name of the company or its products**
- F. Instruction manuals for the company's products

正解: B、C、E

解説:

The data sources that the data scientist should use to augment the dataset of reviews are those that contain relevant and diverse customer feedback about the company or its products. Emails exchanged by customers and the company's customer service agents can provide valuable insights into the issues and complaints that customers have, as well as the solutions and responses that the company offers. Social media posts containing the name of the company or its products can capture the opinions and sentiments of customers and potential customers, as well as their reactions to marketing campaigns and product launches. A publicly available collection of customer reviews can provide a large and varied sample of feedback from different online platforms and marketplaces, which can help to generalize the ML models and avoid bias.

References:

- * Detect sentiment from customer reviews using Amazon Comprehend | AWS Machine Learning Blog
- * How to Apply Machine Learning to Customer Feedback

質問 # 118

A company is building a predictive maintenance model based on machine learning (ML). The data is stored in a fully private Amazon S3 bucket that is encrypted at rest with AWS Key Management Service (AWS KMS) CMKs. An ML specialist must run data preprocessing by using an Amazon SageMaker Processing job that is triggered from code in an Amazon SageMaker notebook. The job should read data from Amazon S3, process it, and upload it back to the same S3 bucket. The preprocessing code is stored in a container image in Amazon Elastic Container Registry (Amazon ECR). The ML specialist needs to grant permissions to ensure a smooth data preprocessing workflow.

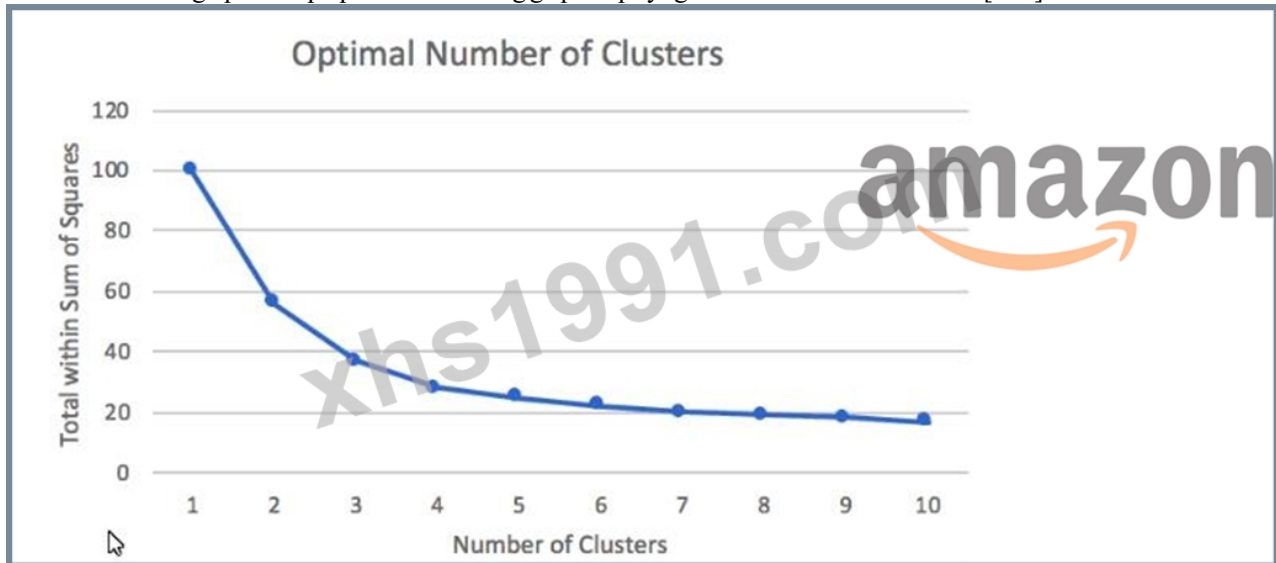
Which set of actions should the ML specialist take to meet these requirements?

- A. Create an IAM role that has permissions to create Amazon SageMaker Processing jobs and to access Amazon ECR. Attach the role to the SageMaker notebook instance. Set up both an S3 endpoint and a KMS endpoint in the default VPC. Create Amazon SageMaker Processing jobs from the notebook.
- B. Create an IAM role that has permissions to create Amazon SageMaker Processing jobs. Attach the role to the SageMaker notebook instance. Create an Amazon SageMaker Processing job with an IAM role that has read and write permissions to the relevant S3 bucket, and appropriate KMS and ECR permissions.
- **C. Create an IAM role that has permissions to create Amazon SageMaker Processing jobs. Attach the role to the SageMaker notebook instance. Set up an S3 endpoint in the default VPC. Create Amazon SageMaker Processing jobs with the access key and secret key of the IAM user with appropriate KMS and ECR permissions.**
- D. Create an IAM role that has permissions to create Amazon SageMaker Processing jobs, S3 read and write access to the relevant S3 bucket, and appropriate KMS and ECR permissions. Attach the role to the SageMaker notebook instance. Create an Amazon SageMaker Processing job from the notebook.

正解: C

質問 # 119

A Machine Learning Specialist prepared the following graph displaying the results of k-means for $k = [1:10]$



Considering the graph, what is a reasonable selection for the optimal choice of k ?

- A. 0
- B. 1
- C. 2
- D. 3

正解: A

解説:

The elbow method is a technique that we use to determine the number of centroids (k) to use in a k-means clustering algorithm. In this method, we plot the within-cluster sum of squares (WCSS) against the number of clusters (k) and look for the point where the curve bends sharply. This point is called the elbow point and it indicates that adding more clusters does not improve the model significantly. The graph in the question shows that the elbow point is at $k = 4$, which means that 4 is a reasonable choice for the optimal number of clusters. References:

Elbow Method for optimal value of k in KMeans: A tutorial on how to use the elbow method with Amazon SageMaker.

K-Means Clustering: A video that explains the concept and benefits of k-means clustering.

質問 # 120

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