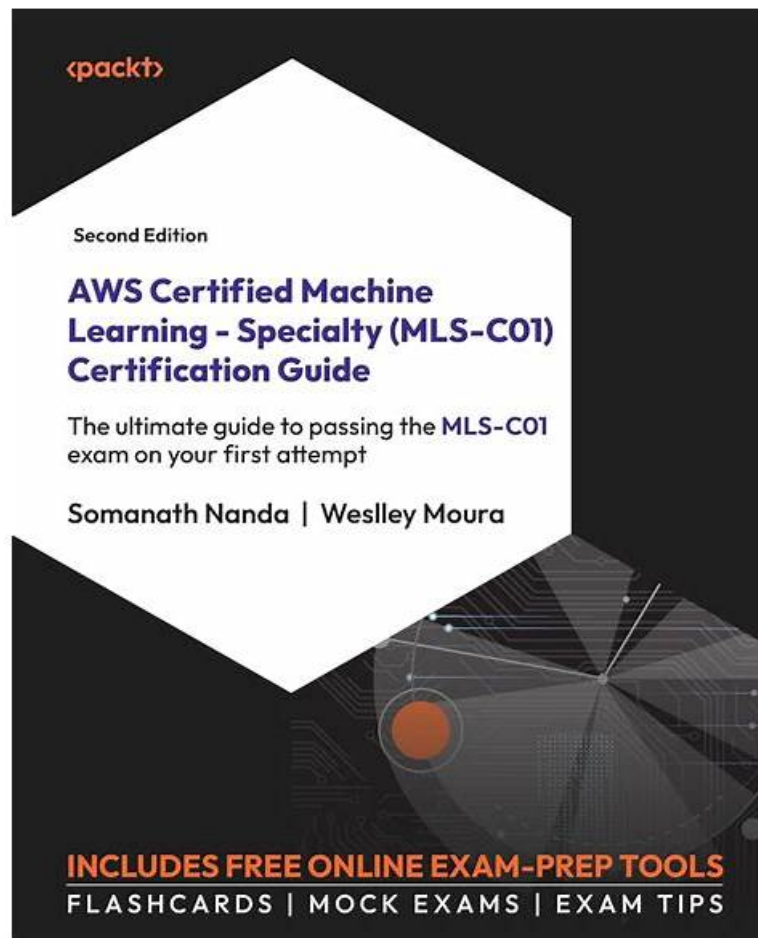


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Wenn Sie finden, dass eine große Herausforderung in Ihrem Berufsleben vor Ihnen steht, so müssen Sie die Amazon MLS-C01 Zertifizierungsprüfung bestehen. Fast2test ist eine echte Website, die umfassende Kenntnisse zur Amazon MLS-C01 Zertifizierungsprüfung besitzt. Wir bieten exklusive Online-Amazon MLS-C01 Prüfungsfragen und Antworten. So ist es ganz leicht, die Prüfung zu bestehen. Unser Fast2test bietet Ihnen 100%-Pass-Garantie. Fast2test ist als Anführer der professionellen Zertifizierung anerkannt. Sie bietet die umfangreichste Zertifizierungsantworten. Sie werden feststellen, dass die Amazon MLS-C01

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Die Amazon AWS-Certified-Machine-Learning-Specialty, auch bekannt als AWS Certified Machine Learning - Specialty Prüfung, ist ein Zertifizierungsprogramm, das von Amazon Web Services (AWS) angeboten wird. Es validiert das Wissen und die Fähigkeiten einer Person im Bereich Design, Aufbau und Implementierung von Lösungen für maschinelles Lernen auf AWS. Diese Zertifizierung richtet sich an Fachleute, die eine Karriere im Bereich des maschinellen Lernens oder der Datenwissenschaften anstreben und ihre Kompetenz und Expertise in diesem Bereich nachweisen möchten.

Um AWS Certified Machine Learning - Specialty zu werden, benötigen Sie ein tiefes Verständnis von Machine-Learning-Konzepten, Algorithmen und Tools. Sie sollten auch praktische Erfahrung im Aufbau und der Bereitstellung von Machine-Learning-Modellen unter Verwendung von AWS-Services wie Amazon SageMaker, AWS Lambda, Amazon Redshift und Amazon Athena haben. Die Prüfung umfasst verschiedene Themen wie Datenvorbereitung, Feature-Engineering, Modelltraining und -bereitstellung, Optimierung und Feinabstimmung sowie Sicherheit und Compliance. Sie besteht aus Multiple-Choice- und Multiple-Response-Fragen und Sie haben 170 Minuten Zeit, um sie zu absolvieren. Um die Prüfung zu bestehen, benötigen Sie eine Punktzahl von mindestens 750 von 1000. Durch das Erlangen der AWS Certified Machine Learning - Specialty-Zertifizierung demonstrieren Sie Ihre Fähigkeit, innovative Machine-Learning-Lösungen auf der AWS-Plattform zu entwerfen und bereitzustellen, was neue Karrieremöglichkeiten eröffnen und Ihr Einkommenspotenzial erhöhen kann.

Amazon AWS Certified Machine Learning - Specialty MLS-C01 Prüfungsfragen mit Lösungen (Q198-Q203):

198. Frage

A manufacturing company uses machine learning (ML) models to detect quality issues. The models use images that are taken of the company's product at the end of each production step. The company has thousands of machines at the production site that generate one image per second on average.

The company ran a successful pilot with a single manufacturing machine. For the pilot, ML specialists used an industrial PC that ran AWS IoT Greengrass with a long-running AWS Lambda function that uploaded the images to Amazon S3. The uploaded images invoked a Lambda function that was written in Python to perform inference by using an Amazon SageMaker endpoint that ran a custom model. The inference results were forwarded back to a web service that was hosted at the production site to prevent faulty products from being shipped.

The company scaled the solution out to all manufacturing machines by installing similarly configured industrial PCs on each production machine. However, latency for predictions increased beyond acceptable limits. Analysis shows that the internet connection is at its capacity limit.

How can the company resolve this issue MOST cost-effectively?

- A. Use auto scaling for SageMaker. Set up an AWS Direct Connect connection between the production site and the nearest AWS Region. Use the Direct Connect connection to upload the images.
- B. Deploy the Lambda function and the ML models onto the AWS IoT Greengrass core that is running on the industrial PCs that are installed on each machine. Extend the long-running Lambda function that runs on AWS IoT Greengrass to invoke the Lambda function with the captured images and run the inference on the edge component that forwards the results directly to the web service.
- C. Set up a 10 Gbps AWS Direct Connect connection between the production site and the nearest AWS Region. Use the Direct Connect connection to upload the images. Increase the size of the instances and the number of instances that are used by the SageMaker endpoint.
- D. Extend the long-running Lambda function that runs on AWS IoT Greengrass to compress the images and upload the compressed files to Amazon S3. Decompress the files by using a separate Lambda function that invokes the existing Lambda function to run the inference pipeline.

Antwort: B

Begründung:

The best option is to deploy the Lambda function and the ML models onto the AWS IoT Greengrass core that is running on the industrial PCs that are installed on each machine. This way, the inference can be performed locally on the edge devices, without the need to upload the images to Amazon S3 and invoke the SageMaker endpoint. This will reduce the latency and the network bandwidth consumption. The long-running Lambda function can be extended to invoke the Lambda function with the captured images and run the inference on the edge component that forwards the results directly to the web service. This will also simplify the architecture and eliminate the dependency on the internet connection.

Option A is not cost-effective, as it requires setting up a 10 Gbps AWS Direct Connect connection and increasing the size and number of instances for the SageMaker endpoint. This will increase the operational costs and complexity.

Option B is not optimal, as it still requires uploading the images to Amazon S3 and invoking the SageMaker endpoint. Compressing

and decompressing the images will add additional processing overhead and latency.

Option C is not sufficient, as it still requires uploading the images to Amazon S3 and invoking the SageMaker endpoint. Auto scaling for SageMaker will help to handle the increased workload, but it will not reduce the latency or the network bandwidth consumption. Setting up an AWS Direct Connect connection will improve the network performance, but it will also increase the operational costs and complexity. References:

AWS IoT Greengrass

Deploying Machine Learning Models to Edge Devices

AWS Certified Machine Learning - Specialty Exam Guide

199. Frage

A data scientist uses Amazon SageMaker Data Wrangler to obtain a feature summary from a dataset that the data scientist imported from Amazon S3. The data scientist notices that the prediction power for a dataset feature has a score of 1.

What is the cause of the score?

- A. The data scientist did not process the features enough to accurately calculate prediction power.
- B. The data scientist did not fine-tune the training and validation split.
- **C. Target leakage occurred in the imported dataset.**
- D. The SageMaker Data Wrangler algorithm that the data scientist used did not find an optimal model fit for each feature to calculate the prediction power.

Antwort: C

Begründung:

A prediction power score of 1 indicates that the feature perfectly predicts the target variable, which usually suggests target leakage. Target leakage occurs when the feature includes information that would not be available at prediction time, leading to unrealistic performance.

From AWS documentation:

"Prediction power scores close to 1 might suggest target leakage in your dataset, as the feature may contain information about the target that wouldn't be available at inference."

- AWS SageMaker Data Wrangler documentation

200. Frage

A Data Scientist is training a multilayer perception (MLP) on a dataset with multiple classes. The target class of interest is unique compared to the other classes within the dataset, but it does not achieve an acceptable recall metric. The Data Scientist has already tried varying the number and size of the MLP's hidden layers, which has not significantly improved the results. A solution to improve recall must be implemented as quickly as possible.

Which techniques should be used to meet these requirements?

- A. Train an XGBoost model instead of an MLP
- **B. Add class weights to the MLP's loss function and then retrain**
- C. Train an anomaly detection model instead of an MLP
- D. Gather more data using Amazon Mechanical Turk and then retrain

Antwort: B

Begründung:

The best technique to improve the recall of the MLP for the target class of interest is to add class weights to the MLP's loss function and then retrain. Class weights are a way of assigning different importance to each class in the dataset, such that the model will pay more attention to the classes with higher weights. This can help mitigate the class imbalance problem, where the model tends to favor the majority class and ignore the minority class. By increasing the weight of the target class of interest, the model will try to reduce the false negatives and increase the true positives, which will improve the recall metric. Adding class weights to the loss function is also a quick and easy solution, as it does not require gathering more data, changing the model architecture, or switching to a different algorithm.

References:

AWS Machine Learning Specialty Exam Guide

AWS Machine Learning Training - Deep Learning with Amazon SageMaker

AWS Machine Learning Training - Class Imbalance and Weighted Loss Functions

201. Frage

A machine learning (ML) specialist is using Amazon SageMaker hyperparameter optimization (HPO) to improve a model's accuracy. The learning rate parameter is specified in the following HPO configuration:

During the results analysis, the ML specialist determines that most of the training jobs had a learning rate between 0.01 and 0.1. The best result had a learning rate of less than 0.01. Training jobs need to run regularly over a changing dataset. The ML specialist needs to find a tuning mechanism that uses different learning rates more evenly from the provided range between MinValue and MaxValue. Which solution provides the MOST accurate result?

- A. Run three different HPO jobs that use different learning rates from the following intervals for MinValue and MaxValue. Divide the number of training jobs for each HPO job by three:
[0.01, 0.1]
[0.001, 0.01]
[0.0001, 0.001]
Select the most accurate hyperparameter configuration from these three HPO jobs.
- B. Run three different HPO jobs that use different learning rates from the following intervals for MinValue and MaxValue while using the same number of training jobs for each HPO job:
[0.01, 0.1]
[0.001, 0.01]
[0.0001, 0.001]
Select the most accurate hyperparameter configuration from these three HPO jobs.
- C. Modify the HPO configuration as follows:
Select the most accurate hyperparameter configuration from this HPO job.
- **D. Modify the HPO configuration as follows:**
Select the most accurate hyperparameter configuration from this training job.

Antwort: D

Begründung:

The solution C modifies the HPO configuration to use a logarithmic scale for the learning rate parameter. This means that the values of the learning rate are sampled from a log-uniform distribution, which gives more weight to smaller values. This can help to explore the lower end of the range more evenly and find the optimal learning rate more efficiently. The other solutions either use a linear scale, which may not sample enough values from the lower end, or divide the range into sub-intervals, which may miss some combinations of hyperparameters. References:

* How Hyperparameter Tuning Works - Amazon SageMaker

* Tuning Hyperparameters - Amazon SageMaker

202. Frage

A company provisions Amazon SageMaker notebook instances for its data science team and creates Amazon VPC interface endpoints to ensure communication between the VPC and the notebook instances. All connections to the Amazon SageMaker API are contained entirely and securely using the AWS network.

However, the data science team realizes that individuals outside the VPC can still connect to the notebook instances across the internet.

Which set of actions should the data science team take to fix the issue?

- A. Add a NAT gateway to the VPC. Convert all of the subnets where the Amazon SageMaker notebook instances are hosted to private subnets. Stop and start all of the notebook instances to reassign only private IP addresses.
- **B. Modify the notebook instances' security group to allow traffic only from the CIDR ranges of the VPC.**
Apply this security group to all of the notebook instances' VPC interfaces.
- C. Change the network ACL of the subnet the notebook is hosted in to restrict access to anyone outside the VPC.
- D. Create an IAM policy that allows the sagemaker:CreatePresignedNotebookInstanceUrl and sagemaker:DescribeNotebookInstance actions from only the VPC endpoints. Apply this policy to all IAM users, groups, and roles used to access the notebook instances.

Antwort: B

Begründung:

Explanation

The issue is that the notebook instances' security group allows inbound traffic from any source IP address, which means that anyone with the authorized URL can access the notebook instances over the internet. To fix this issue, the data science team should modify the security group to allow traffic only from the CIDR ranges of the VPC, which are the IP addresses assigned to the resources

within the VPC. This way, only the VPC interface endpoints and the resources within the VPC can communicate with the notebook instances. The data science team should apply this security group to all of the notebook instances' VPC interfaces, which are the network interfaces that connect the notebook instances to the VPC.

The other options are not correct because:

Option B: Creating an IAM policy that allows the `sagemaker:CreatePresignedNotebookInstanceUrl` and `sagemaker:DescribeNotebookInstance` actions from only the VPC endpoints does not prevent individuals outside the VPC from accessing the notebook instances. These actions are used to generate and retrieve the authorized URL for the notebook instances, but they do not control who can use the URL to access the notebook instances. The URL can still be shared or leaked to unauthorized users, who can then access the notebook instances over the internet.

Option C: Adding a NAT gateway to the VPC and converting the subnets where the notebook instances are hosted to private subnets does not solve the issue either. A NAT gateway is used to enable outbound internet access from a private subnet, but it does not affect inbound internet access. The notebook instances can still be accessed over the internet if their security group allows inbound traffic from any source IP address. Moreover, stopping and starting the notebook instances to reassign only private IP addresses is not necessary, because the notebook instances already have private IP addresses assigned by the VPC interface endpoints.

Option D: Changing the network ACL of the subnet the notebook is hosted in to restrict access to anyone outside the VPC is not a good practice, because network ACLs are stateless and apply to the entire subnet. This means that the data science team would have to specify both the inbound and outbound rules for each IP address range that they want to allow or deny. This can be cumbersome and error-prone, especially if the VPC has multiple subnets and resources. It is better to use security groups, which are stateful and apply to individual resources, to control the access to the notebook instances.

References:

Connect to SageMaker Within your VPC - Amazon SageMaker

Security Groups for Your VPC - Amazon Virtual Private Cloud

VPC Interface Endpoints - Amazon Virtual Private Cloud

203. Frage

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