MLS-C01 Q&As

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QUESTION 1

A company has set up and deployed its machine learning (ML) model into production with an endpoint using Amazon SageMaker hosting services. The ML team has configured automatic scaling for its SageMaker instances to support workload changes. During testing, the team notices that additional instances are being launched before the new instances are ready. This behavior needs to change as soon as possible.

How can the ML team solve this issue?

A. Decrease the cooldown period for the scale-in activity. Increase the configured maximum capacity of instances.

B. Replace the current endpoint with a multi-model endpoint using SageMaker.

C. Set up Amazon API Gateway and AWS Lambda to trigger the SageMaker inference endpoint.

D. Increase the cooldown period for the scale-out activity.

Correct Answer: D

Reference: https://aws.amazon.com/blogs/machine-learning/configuring-autoscaling-inference-endpoints-in-amazon-sagemaker/

QUESTION 2

A logistics company needs a forecast model to predict next month\\'s inventory requirements for a single item in 10 warehouses. A machine learning specialist uses Amazon Forecast to develop a forecast model from 3 years of monthly data. There is no missing data. The specialist selects the DeepAR+ algorithm to train a predictor. The predictor means absolute percentage error (MAPE) is much larger than the MAPE produced by the current human forecasters.

Which changes to the CreatePredictor API call could improve the MAPE? (Choose two.)

A. Set PerformAutoML to true.

B. Set ForecastHorizon to 4.

C. Set ForecastFrequency to W for weekly.

D. Set PerformHPO to true.

E. Set FeaturizationMethodName to filling.

Correct Answer: AD

Setting PerformAutoML to true will enable Amazon Forecast to automatically select the best algorithm and hyperparameters for your data and problem. This can help improve the MAPE by finding the optimal combination of algorithm and hyperparameters that minimize prediction error.

Setting PerformHPO to true will enable Amazon Forecast to perform a hyperparameter optimization search to find the best combination of hyperparameters that result in the best prediction performance. This can help improve the MAPE by finding the optimal combination of hyperparameters that minimize prediction error.

QUESTION 3

A Machine Learning Specialist is designing a system for improving sales for a company. The objective is to use the large amount of information the company has on users\\' behavior and product preferences to predict which products users would like based on the users\\' similarity to other users.

What should the Specialist do to meet this objective?

A. Build a content-based filtering recommendation engine with Apache Spark ML on Amazon EMR.

B. Build a collaborative filtering recommendation engine with Apache Spark ML on Amazon EMR.

C. Build a model-based filtering recommendation engine with Apache Spark ML on Amazon EMR.

D. Build a combinative filtering recommendation engine with Apache Spark ML on Amazon EMR.

Correct Answer: B

Many developers want to implement the famous Amazon model that was used to power the "People who bought this also bought these items" feature on Amazon.com. This model is based on a method called Collaborative Filtering. It takes items such as movies, books, and products that were rated highly by a set of users and recommending them to other users who also gave them high ratings. This method works well in domains where explicit ratings or implicit user actions can be gathered and analyzed.

Reference: https://aws.amazon.com/blogs/big-data/building-a-recommendation-engine-with-spark-ml-on-amazon-emr-using-zeppelin/

QUESTION 4

A company is using Amazon Textract to extract textual data from thousands of scanned text-heavy legal documents daily. The company uses this information to process loan applications automatically. Some of the documents fail business validation and are returned to human reviewers, who investigate the errors. This activity increases the time to process the loan applications.

What should the company do to reduce the processing time of loan applications?

A. Configure Amazon Textract to route low-confidence predictions to Amazon SageMaker Ground Truth. Perform a manual review on those words before performing a business validation.

B. Use an Amazon Textract synchronous operation instead of an asynchronous operation.

C. Configure Amazon Textract to route low-confidence predictions to Amazon Augmented AI (Amazon A2I). Perform a manual review on those words before performing a business validation.

D. Use Amazon Rekognition\\'s feature to detect text in an image to extract the data from scanned images. Use this information to process the loan applications.

Correct Answer: C

QUESTION 5

A company is using a legacy telephony platform and has several years remaining on its contract. The company wants to move to AWS and wants to implement the following machine learning features:

1.

Call transcription in multiple languages

2.

Categorization of calls based on the transcript

3.

Detection of the main customer issues in the calls

4.

Customer sentiment analysis for each line of the transcript, with positive or negative indication and scoring of that sentiment

Which AWS solution will meet these requirements with the LEAST amount of custom model training?

A. Use Amazon Transcribe to process audio calls to produce transcripts, categorize calls, and detect issues. Use Amazon Comprehend to analyze sentiment.

B. Use Amazon Transcribe to process audio calls to produce transcripts. Use Amazon Comprehend to categorize calls, detect issues, and analyze sentiment

C. Use Contact Lens for Amazon Connect to process audio calls to produce transcripts, categorize calls, detect issues, and analyze sentiment.

D. Use Contact Lens for Amazon Connect to process audio calls to produce transcripts. Use Amazon Comprehend to categorize calls, detect issues, and analyze sentiment.

Correct Answer: C

https://aws.amazon.com/connect/contact-lens/