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MLS-C01^Q&As

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QUESTION 1

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:

{ "Name": "learning_rate,

"MaxValue": "0.0001",

"MinValue": "0.1" }

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. Modify the HPO configuration as follows:

{ "Name": "learning_rate,

"MaxValue": "0.0001",

"MinValue": "0.1"

 "ScanlingType": "ReverseLogarithmic"}

Select the most accurate hyperparameter configuration form this HPO job.

B. Run three different HPO jobs that use different learning rates form the following intervals for MinValue and MaxValue while using the same number of training jobs for each HPO job:

1.

[0.01, 0.1]

2.

[0.001, 0.01]

3.

[0.0001, 0.001]

Select the most accurate hyperparameter configuration form these three HPO jobs.

C. Modify the HPO configuration as follows:

{ "Name": "learning_rate,

"MaxValue": "0.0001",

"MinValue": "0.1"

"ScanlingType": "Logarithmic"}

Select the most accurate hyperparameter configuration form this training job.

D. Run three different HPO jobs that use different learning rates form the following intervals for MinValue and MaxValue. Divide the number of training jobs for each HPO job by three:

1.

[0.01, 0.1]

2.

[0.001, 0.01]

3.

[0.0001, 0.001]

Select the most accurate hyperparameter configuration form these three HPO jobs.

Correct Answer: C

QUESTION 2

This graph shows the training and validation loss against the epochs for a neural network

The network being trained is as follows

1.

 Two dense layers one output neuron
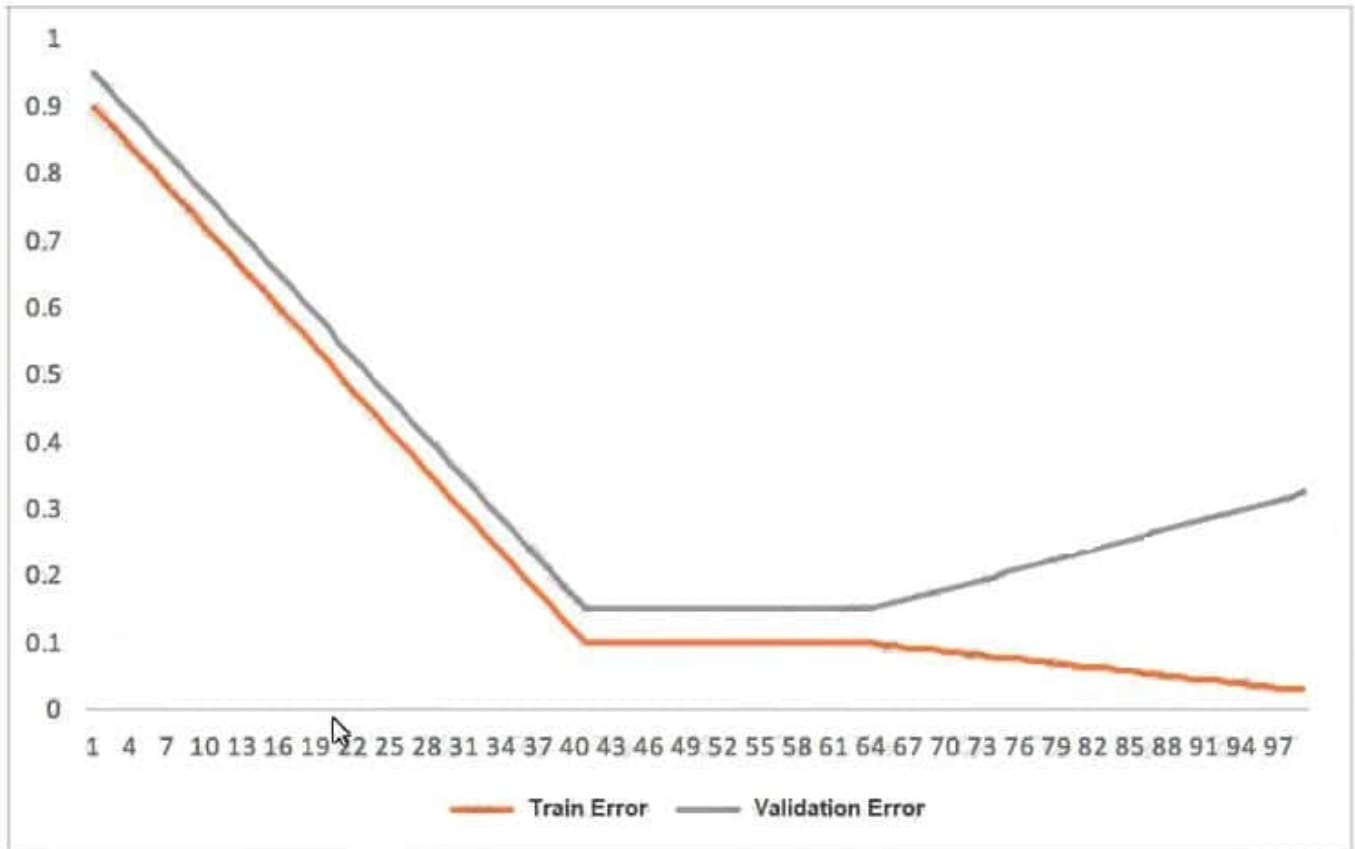
2.

 100 neurons in each layer

3.

 100 epochs

4.

 Random initialization of weights

Which technique can be used to improve model performance in terms of accuracy in the validation set?

A. Early stopping

B. Random initialization of weights with appropriate seed

C. Increasing the number of epochs

D. Adding another layer with the 100 neurons

Correct Answer: A

The answer is Early Stopping. Stopp the training before accuracy start do decrease.

QUESTION 3

A company that runs an online library is implementing a chatbot using Amazon Lex to provide book recommendations based on category. This intent is fulfilled by an AWS Lambda function that queries an Amazon DynamoDB table for a list of book titles, given a particular category. For testing, there are only three categories implemented as the custom slot types: "comedy," "adventure," and "documentary."

A machine learning (ML) specialist notices that sometimes the request cannot be fulfilled because Amazon Lex cannot understand the category spoken by users with utterances such as "funny," "fun," and "humor." The ML specialist needs to fix the problem without changing the Lambda code or data in DynamoDB.

How should the ML specialist fix the problem?

A. Add the unrecognized words in the enumeration values list as new values in the slot type.

B. Create a new custom slot type, add the unrecognized words to this slot type as enumeration values, and use this slot type for the slot.

C. Use the AMAZON.SearchQuery built-in slot types for custom searches in the database.

D. Add the unrecognized words as synonyms in the custom slot type.

Correct Answer: D

https://docs.aws.amazon.com/lex/latest/dg/howitworks-custom-slots.html "For each intent, you can specify parameters that indicate the information that the intent needs to fulfill the user\'s request. These parameters, or slots, have a type. A slot type is a list of values that Amazon Lex uses to train the machine learning model to recognize values for a slot. For example, you can define a slot type called "Genres." Each value in the slot type is the name of a genre, "comedy," "adventure," "documentary," etc. You can define a synonym for a slot type value. For example, you can define the synonyms "funny" and "humorous" for the value "comedy.""

QUESTION 4

A large company has developed a BI application that generates reports and dashboards using data collected from various operational metrics. The company wants to provide executives with an enhanced experience so they can use natural language to get data from the reports. The company wants the executives to be able ask questions using written and spoken interfaces.

Which combination of services can be used to build this conversational interface? (Choose three.)

A. Alexa for Business

B. Amazon Connect

C. Amazon Lex

D. Amazon Polly

E. Amazon Comprehend

F. Amazon Transcribe

Correct Answer: CEF

QUESTION 5

A company is creating an application to identify, count, and classify animal images that are uploaded to the company\'s website. The company is using the Amazon SageMaker image classification algorithm with an ImageNetV2 convolutional neural network (CNN). The solution works well for most animal images but does not recognize many animal species that are less common.

The company obtains 10,000 labeled images of less common animal species and stores the images in Amazon S3. A machine learning (ML) engineer needs to incorporate the images into the model by using Pipe mode in SageMaker.

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Which combination of steps should the ML engineer take to train the model? (Choose two.)

A. Use a ResNet model. Initiate full training mode by initializing the network with random weights.

B. Use an Inception model that is available with the SageMaker image classification algorithm.

C. Create a .lst file that contains a list of image files and corresponding class labels. Upload the .lst file to Amazon S3.

D. Initiate transfer learning. Train the model by using the images of less common species.

E. Use an augmented manifest file in JSON Lines format.

Correct Answer: BD

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