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Amazon MLS-C01 Exam covers a wide range of topics related to machine learning, including data preparation, feature engineering, model selection, model training, and model deployment. It also covers topics related to AWS services and tools that are commonly used in machine learning, such as Amazon SageMaker, Amazon Rekognition, Amazon Comprehend, and Amazon Polly. Candidates are expected to have a deep understanding of these topics, as well as hands-on experience working with these AWS services and tools.

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Amazon AWS Certified Machine Learning - Specialty Sample Questions (Q288-Q293):

NEW QUESTION # 288

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 to ask questions using written and spoken interfaces. Which

combination of services can be used to build this conversational interface? (Select THREE)

- A. Alexa for Business
- B. Amazon Comprehend
- C. Amazon Transcribe
- D. Amazon Polly
- E. Amazon Connect
- F. Amazon Lex

Answer: B,C,E

NEW QUESTION # 289

Machine Learning Specialist is training a model to identify the make and model of vehicles in images. The Specialist wants to use transfer learning and an existing model trained on images of general objects. The Specialist collated a large custom dataset of pictures containing different vehicle makes and models.

What should the Specialist do to initialize the model to re-train it with the custom data?

- A. Initialize the model with random weights in all layers and replace the last fully connected layer.
- B. Initialize the model with pre-trained weights in all layers including the last fully connected layer.
- C. Initialize the model with pre-trained weights in all layers and replace the last fully connected layer.
- D. Initialize the model with random weights in all layers including the last fully connected layer.

Answer: C

NEW QUESTION # 290

A company is planning a marketing campaign to promote a new product to existing customers. The company has data (or past promotions that are similar. The company decides to try an experiment to send a more expensive marketing package to a smaller number of customers. The company wants to target the marketing campaign to customers who are most likely to buy the new product. The experiment requires that at least 90% of the customers who are likely to purchase the new product receive the marketing materials.

...company trains a model by using the linear learner algorithm in Amazon SageMaker. The model has a recall score of 80% and a precision of 75%.

...should the company retrain the model to meet these requirements?

- A. Set the target_recall hyperparameter to 90% Set the binaryclassifier model_selection_criteria hyperparameter to recall_at_target_precision.
- B. Set the normalize_label hyperparameter to true. Set the number of classes to 2.
- C. Use 90% of the historical data for training Set the number of epochs to 20.
- D. Set the targetprecision hyperparameter to 90%. Set the binary classifier model selection criteria hyperparameter to precision at_target recall.

Answer: A

Explanation:

The best way to retrain the model to meet the requirements is to set the target_recall hyperparameter to 90% and set the binary_classifier_model_selection_criteria hyperparameter to recall_at_target_precision. This will instruct the linear learner algorithm to optimize the model for a high recall score, while maintaining a reasonable precision score. Recall is the proportion of actual positives that were identified correctly, which is important for the company's goal of reaching at least 90% of the customers who are likely to buy the new product¹. Precision is the proportion of positive identifications that were actually correct, which is also relevant for the company's budget and efficiency². By setting the target_recall to 90%, the algorithm will try to achieve a recall score of at least 90%, and by setting the binary_classifier_model_selection_criteria to recall_at_target_precision, the algorithm will select the model that has the highest recall score among those that have a precision score equal to or higher than the target precision³. The target precision is automatically set to the median of the precision scores of all the models trained in parallel⁴.

The other options are not correct or optimal, because they have the following drawbacks:

B: Setting the target_precision hyperparameter to 90% and setting the

binary_classifier_model_selection_criteria hyperparameter to precision_at_target_recall will optimize the model for a high precision score, while maintaining a reasonable recall score. However, this is not aligned with the company's goal of reaching at least 90% of the customers who are likely to buy the new product, as precision does not reflect how well the model identifies the actual positives¹. Moreover, setting the target_precision to 90% might be too high and unrealistic for the dataset, as the current precision

score is only 75%⁴.

C: Using 90% of the historical data for training and setting the number of epochs to 20 will not necessarily improve the recall score of the model, as it does not change the optimization objective or the model selection criteria. Moreover, using more data for training might reduce the amount of data available for validation, which is needed for selecting the best model among the ones trained in parallel³. The number of epochs is also not a decisive factor for the recall score, as it depends on the learning rate, the optimizer, and the convergence of the algorithm⁵.

D: Setting the `normalize_label` hyperparameter to true and setting the number of classes to 2 will not affect the recall score of the model, as these are irrelevant hyperparameters for binary classification problems. The `normalize_label` hyperparameter is only applicable for regression problems, as it controls whether the label is normalized to have zero mean and unit variance³. The number of classes hyperparameter is only applicable for multiclass classification problems, as it specifies the number of output classes³.

1: Classification: Precision and Recall | Machine Learning | Google for Developers

2: Precision and recall - Wikipedia

3: Linear Learner Algorithm - Amazon SageMaker

4: How linear learner works - Amazon SageMaker

5: Getting hands-on with Amazon SageMaker Linear Learner - Pluralsight

NEW QUESTION # 291

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"
}
```

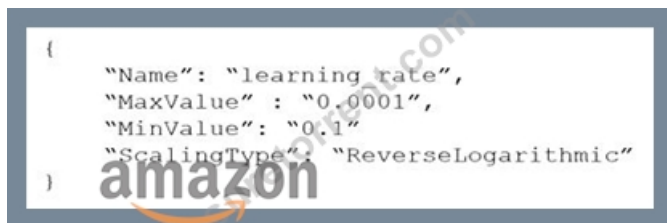
During the results analysis, the ML specialist determines that most of the training jobs had a learning rate between 0.01 and 0.1. The best result had a learning rate of less than 0.01. Training jobs need to run regularly over a changing dataset. The ML specialist needs to find a tuning mechanism that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

- A. 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. Modify the HPO configuration as follows:

```
{
  "Name": "learning_rate",
  "MaxValue": "0.0001",
  "MinValue": "0.1",
  "ScalingType": "Logarithmic"
}
```

Select the most accurate hyperparameter configuration from this training job.

- C. 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.
- D. Modify the HPO configuration as follows:



Select the most accurate hyperparameter configuration from this HPO job.

Answer: B

NEW QUESTION # 292

A Machine Learning Specialist is developing recommendation engine for a photography blog. Given a picture, the recommendation engine should show a picture that captures similar objects. The Specialist would like to create a numerical representation feature to perform nearest-neighbor searches. What actions would allow the Specialist to get relevant numerical representations?

- A. Reduce image resolution and use reduced resolution pixel values as features
- B. Average colors by channel to obtain three-dimensional representations of images.
- C. Run images through a neural network pre-trained on ImageNet, and collect the feature vectors from the penultimate layer
- D. Use Amazon Mechanical Turk to label image content and create a one-hot representation indicating the presence of specific labels

Answer: C

Explanation:

Explanation

A neural network pre-trained on ImageNet is a deep learning model that has been trained on a large dataset of images containing 1000 classes of objects. The model can learn to extract high-level features from the images that capture the semantic and visual information of the objects. The penultimate layer of the model is the layer before the final output layer, and it contains a feature vector that represents the input image in a lower-dimensional space. By running images through a pre-trained neural network and collecting the feature vectors from the penultimate layer, the Specialist can obtain relevant numerical representations that can be used for nearest-neighbor searches. The feature vectors can capture the similarity between images based on the presence and appearance of similar objects, and they can be compared using distance metrics such as Euclidean distance or cosine similarity. This approach can enable the recommendation engine to show a picture that captures similar objects to a given picture.

References:

ImageNet - Wikipedia

How to use a pre-trained neural network to extract features from images | by Rishabh Anand | Analytics Vidhya | Medium
Image Similarity using Deep Ranking | by Aditya Oke | Towards Data Science

NEW QUESTION # 293

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