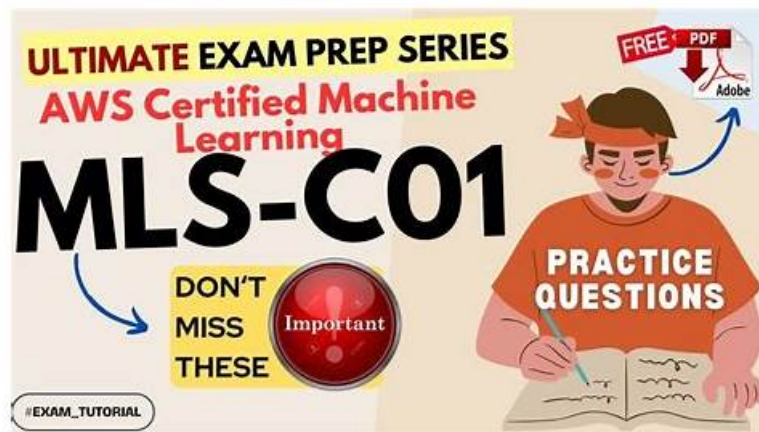


MLS-C01 100% Accuracy - Latest MLS-C01 Test Notes



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Pattern of the Exam

MLS-C01 test contains questions in the form of multiple choice (with only one correct option) and multiple answer (more than 1 correct response). The candidates will get 180 minutes to finish the exam. Also, they need to pay \$300 for registration. They can also choose preferred language from the options such as English, Simplified Chinese, Korean, and Japanese. Finally, one has the opportunity of taking the exam online or in a testing center. Topics covered include ML operations as well as implementation, exploratory data analysis, data engineering, and modeling.

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Latest MLS-C01 Test Notes & New MLS-C01 Mock Exam

The web-based Amazon MLS-C01 Practice Exam is compatible with all operating systems, including Mac, Linux, iOS, Android, and Windows. It is a browser-based AWS Certified Machine Learning - Specialty (MLS-C01) practice exam that works on all major browsers, including Chrome, Firefox, Safari, Internet Explorer, and Opera. This means that you won't have to worry about installing any complicated software or plug-ins.

The AWS-Certified-Machine-Learning-Specialty exam consists of 65 multiple-choice and multiple-response questions, and candidates have 180 minutes to complete the exam. MLS-C01 Exam covers a wide range of topics, including data preparation, feature engineering, model selection and evaluation, and deployment and implementation.

Amazon AWS Certified Machine Learning - Specialty Sample Questions (Q77-Q82):

NEW QUESTION # 77

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.

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

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

- B. Initiate transfer learning. Train the model by using the images of less common species.
- C. Create a .lst file that contains a list of image files and corresponding class labels. Upload the .lst file to Amazon S3.
- D. Use a ResNet model. Initiate full training mode by initializing the network with random weights.
- E. Use an augmented manifest file in JSON Lines format.

Answer: B,C

Explanation:

The combination of steps that the ML engineer should take to train the model are to create a .lst file that contains a list of image files and corresponding class labels, upload the .lst file to Amazon S3, and initiate transfer learning by training the model using the images of less common species. This approach will allow the ML engineer to leverage the existing ImageNetV2 CNN model and fine-tune it with the new data using Pipe mode in SageMaker.

A .lst file is a text file that contains a list of image files and corresponding class labels, separated by tabs. The .

lst file format is required for using the SageMaker image classification algorithm with Pipe mode. Pipe mode is a feature of SageMaker that enables streaming data directly from Amazon S3 to the training instances, without downloading the data first. Pipe mode can reduce the startup time, improve the I/O throughput, and enable training on large datasets that exceed the disk size limit. To use Pipe mode, the ML engineer needs to upload the .lst file to Amazon S3 and specify the S3 path as the input data channel for the training job1.

Transfer learning is a technique that enables reusing a pre-trained model for a new task by fine-tuning the model parameters with new data. Transfer learning can save time and computational resources, as well as improve the performance of the model, especially when the new task is similar to the original task. The SageMaker image classification algorithm supports transfer learning by allowing the ML engineer to specify the number of output classes and the number of layers to be retrained. The ML engineer can use the existing ImageNetV2 CNN model, which is trained on 1,000 classes of common objects, and fine-tune it with the new data of less common animal species, which is a similar task2.

The other options are either less effective or not supported by the SageMaker image classification algorithm.

Using a ResNet model and initiating full training mode would require training the model from scratch, which would take more time and resources than transfer learning. Using an Inception model is not possible, as the SageMaker image classification algorithm only supports ResNet and ImageNetV2 models. Using an augmented manifest file in JSON Lines format is not compatible with Pipe mode, as Pipe mode only supports .

lst files for image classification1.

1: Using Pipe input mode for Amazon SageMaker algorithms | AWS Machine Learning Blog

2: Image Classification Algorithm - Amazon SageMaker

NEW QUESTION # 78

A Machine Learning Specialist receives customer data for an online shopping website. The data includes demographics, past visits, and locality information. The Specialist must develop a machine learning approach to identify the customer shopping patterns, preferences and trends to enhance the website for better service and smart recommendations.

Which solution should the Specialist recommend?

- A. A neural network with a minimum of three layers and random initial weights to identify patterns in the customer database
- B. Random Cut Forest (RCF) over random subsamples to identify patterns in the customer database
- C. Collaborative filtering based on user interactions and correlations to identify patterns in the customer database
- D. Latent Dirichlet Allocation (LDA) for the given collection of discrete data to identify patterns in the customer database.

Answer: C

NEW QUESTION # 79

A data scientist has developed a machine learning translation model for English to Japanese by using Amazon SageMaker's built-in seq2seq algorithm with 500,000 aligned sentence pairs. While testing with sample sentences, the data scientist finds that the translation quality is reasonable for an example as short as five words. However, the quality becomes unacceptable if the sentence is 100 words long.

Which action will resolve the problem?

- A. Change preprocessing to use n-grams.
- B. Adjust hyperparameters related to the attention mechanism.
- C. Add more nodes to the recurrent neural network (RNN) than the largest sentence's word count.
- D. Choose a different weight initialization type.

Answer: B

Explanation:

Explanation

The data scientist should adjust hyperparameters related to the attention mechanism to resolve the problem.

The attention mechanism is a technique that allows the decoder to focus on different parts of the input sequence when generating the output sequence. It helps the model cope with long input sequences and improve the translation quality. The Amazon SageMaker seq2seq algorithm supports different types of attention mechanisms, such as dot, general, concat, and mlp. The data scientist can use the hyperparameter `attention_type` to choose the type of attention mechanism. The data scientist can also use the hyperparameter `attention_coverage_type` to enable coverage, which is a mechanism that penalizes the model for attending to the same input positions repeatedly. By adjusting these hyperparameters, the data scientist can fine-tune the attention mechanism and reduce the number of false negative predictions by the model.

References:

Sequence-to-Sequence Algorithm - Amazon SageMaker

Attention Mechanism - Sockeye Documentation

NEW QUESTION # 80

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

Answer: B

NEW QUESTION # 81

A health care company is planning to use neural networks to classify their X-ray images into normal and abnormal classes. The labeled data is divided into a training set of 1,000 images and a test set of 200 images.

The initial training of a neural network model with 50 hidden layers yielded 99% accuracy on the training set, but only 55% accuracy on the test set.

What changes should the Specialist consider to solve this issue? (Choose three.)


- **A. Enable dropout**
- B. Choose a lower number of layers
- **C. Include all the images from the test set in the training set**
- D. Enable early stopping
- **E. Choose a higher number of layers**
- F. Choose a smaller learning rate

Answer: A,C,E

NEW QUESTION # 82

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