

2026 MLA-C01 Reliable Exam Tips | Valid Amazon MLA-C01 Test Engine Version: AWS Certified Machine Learning Engineer - Associate



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Amazon MLA-C01 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"> Deployment and Orchestration of ML Workflows: This section of the exam measures skills of Forensic Data Analysts and focuses on deploying machine learning models into production environments. It covers choosing the right infrastructure, managing containers, automating scaling, and orchestrating workflows through CI CD pipelines. Candidates must be able to build and script environments that support consistent deployment and efficient retraining cycles in real-world fraud detection systems.
Topic 2	<ul style="list-style-type: none"> ML Model Development: This section of the exam measures skills of Fraud Examiners and covers choosing and training machine learning models to solve business problems such as fraud detection. It includes selecting algorithms, using built-in or custom models, tuning parameters, and evaluating performance with standard metrics. The domain emphasizes refining models to avoid overfitting and maintaining version control to support ongoing investigations and audit trails.
Topic 3	<ul style="list-style-type: none"> ML Solution Monitoring, Maintenance, and Security: This section of the exam measures skills of Fraud Examiners and assesses the ability to monitor machine learning models, manage infrastructure costs, and apply security best practices. It includes setting up model performance tracking, detecting drift, and using AWS tools for logging and alerts. Candidates are also tested on configuring access controls, auditing environments, and maintaining compliance in sensitive data environments like financial fraud detection.
Topic 4	<ul style="list-style-type: none"> Data Preparation for Machine Learning (ML): This section of the exam measures skills of Forensic Data Analysts and covers collecting, storing, and preparing data for machine learning. It focuses on understanding different data formats, ingestion methods, and AWS tools used to process and transform data. Candidates are expected to clean and engineer features, ensure data integrity, and address biases or compliance issues, which are crucial for preparing high-quality datasets in fraud analysis contexts.

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Amazon AWS Certified Machine Learning Engineer - Associate Sample Questions (Q236-Q241):

NEW QUESTION # 236

A company needs to use Retrieval Augmented Generation (RAG) to supplement an open source large language model (LLM) that runs on Amazon Bedrock. The company's data for RAG is a set of documents in an Amazon S3 bucket. The documents consist of .csv files and .docx files.

Which solution will meet these requirements with the LEAST operational overhead?

- A. Create a pipeline in Amazon SageMaker Pipelines to generate a new model. Call the new model from Amazon Bedrock to perform RAG queries.
- B. Fine-tune an existing LLM by using an AutoML job in Amazon SageMaker. Configure the S3 bucket as a data source for the AutoML job. Deploy the LLM to a SageMaker endpoint. Use the endpoint to perform RAG queries.
- C. Create a knowledge base for Amazon Bedrock. Configure a data source that references the S3 bucket. Use the Amazon Bedrock API to perform RAG queries.
- D. Convert the data into vectors. Store the data in an Amazon Neptune database. Connect the database to Amazon Bedrock. Call the Amazon Bedrock API to perform RAG queries.

Answer: C

NEW QUESTION # 237

A company wants to build a real-time analytics application that uses streaming data from social media. An ML engineer must implement a solution that ingests and transforms 5 GB of data each minute. The solution also must load the data into a data store that supports fast queries for the real-time analytics. Which solution will meet these requirements?

- A. Use Amazon Simple Notification Service (Amazon SNS) to ingest the social media data. Use Amazon EMR to transform the data. Store the transformed data in Amazon RDS.
- B. Use Amazon Kinesis Data Streams to ingest the social media data. Use Amazon Managed Service for Apache Flink to transform the data. Store the transformed data in Amazon DynamoDB.
- C. Use Amazon EventBridge to ingest the social media data. Use AWS Glue to transform the data. Store the transformed data in Amazon ElastiCache (Memcached).
- D. Use Amazon Simple Queue Service (Amazon SQS) to ingest the social media data. Use AWS Lambda to transform the data. Store the transformed data in Amazon S3.

Answer: B

Explanation:

Amazon Kinesis Data Streams is designed for high-throughput ingestion of streaming data such as social media feeds. Amazon Managed Service for Apache Flink enables real-time transformations on that data. Amazon DynamoDB provides low-latency reads and writes, making it suitable for fast queries in real-time analytics. This combination fully meets the scale and speed requirements.

NEW QUESTION # 238

A company has a large collection of chat recordings from customer interactions after a product release. An ML engineer needs to create an ML model to analyze the chat data. The ML engineer needs to determine the success of the product by reviewing customer sentiments about the product.

Which action should the ML engineer take to complete the evaluation in the LEAST amount of time?

- A. Use Amazon Comprehend to analyze sentiments of the chat conversations.
- B. Train a Naive Bayes classifier to analyze sentiments of the chat conversations.
- C. Use random forests to classify sentiments of the chat conversations.
- D. Use Amazon Rekognition to analyze sentiments of the chat conversations.

Answer: A

Explanation:

Amazon Comprehend is a fully managed natural language processing (NLP) service that includes a built-in sentiment analysis feature. It can quickly and efficiently analyze text data to determine whether the sentiment is positive, negative, neutral, or mixed. Using Amazon Comprehend requires minimal setup and provides accurate results without the need to train and deploy custom models, making it the fastest and most efficient solution for this task.

NEW QUESTION # 239

An ML engineer is using Amazon SageMaker JumpStart to fine-tune a Llama 3.2 model for text generation.

The ML engineer is using an instruction-based fine-tuning method. The model uses 70 billion parameters.

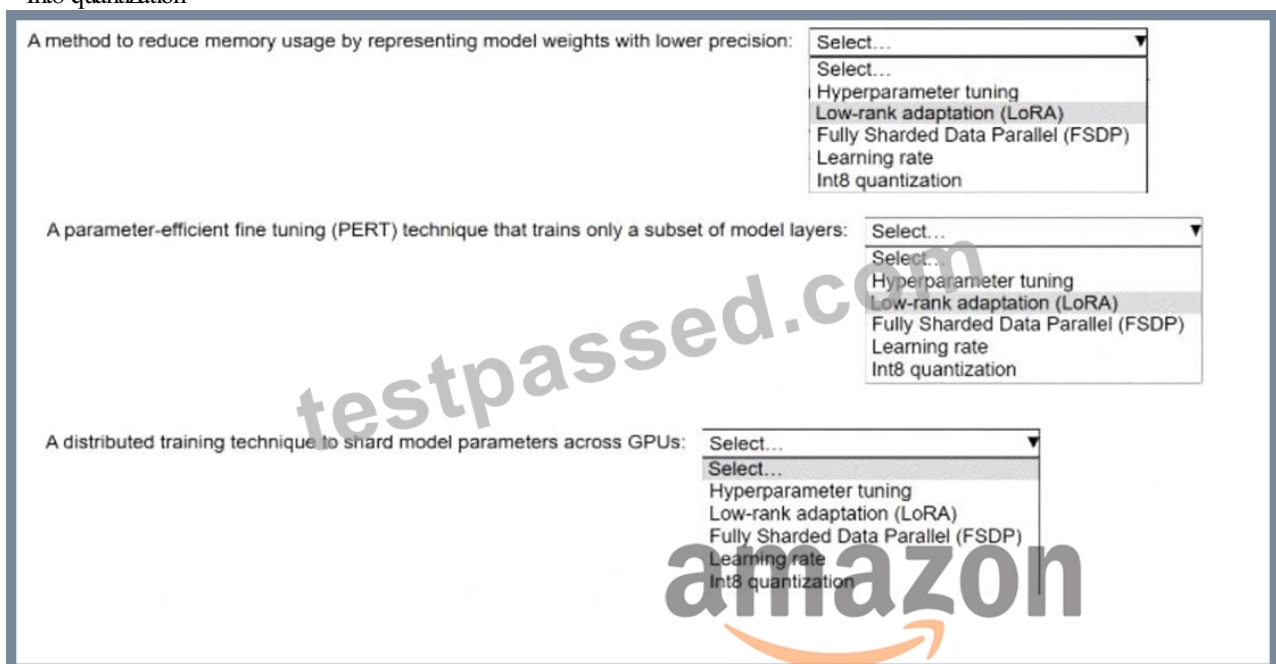
Select the correct fine-tuning term from the following list to match each description. Select each term one time or not at all. (Select THREE.)

- * Hyperparameter tuning
- * Low-rank adaptation (LoRA)
- * Fully Sharded Data Parallel (FSDP)
- * Learning rate
- * Int8 quantization

A method to reduce memory usage by representing model weights with lower precision:

A parameter-efficient fine tuning (PERT) technique that trains only a subset of model layers:

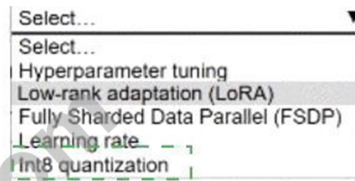
A distributed training technique to shard model parameters across GPUs:

The image shows a quiz interface with three questions, each followed by a dropdown menu. The first question is "A method to reduce memory usage by representing model weights with lower precision:" and the dropdown menu is open, showing options: "Select...", "Hyperparameter tuning", "Low-rank adaptation (LoRA)", "Fully Sharded Data Parallel (FSDP)", "Learning rate", and "Int8 quantization". The second question is "A parameter-efficient fine tuning (PERT) technique that trains only a subset of model layers:" and the dropdown menu is open, showing the same options. The third question is "A distributed training technique to shard model parameters across GPUs:" and the dropdown menu is open, showing the same options. A large watermark "testpassed.com" is overlaid diagonally across the middle of the image, and the Amazon logo is at the bottom center.

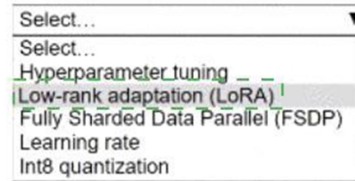
Answer:

Explanation:

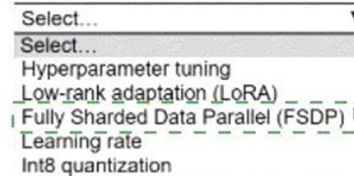
A method to reduce memory usage by representing model weights with lower precision:



A parameter-efficient fine tuning (PERT) technique that trains only a subset of model layers:



A distributed training technique to shard model parameters across GPUs:



Explanation:

- * Int8 quantization
- * Low-rank adaptation (LoRA)
- * Fully Sharded Data Parallel (FSDP)

These three mappings align with AWS documentation for large-model training and optimization in SageMaker AI.

For 1, the correct answer is Int8 quantization. AWS documentation explains that quantization reduces hardware and memory requirements by using a less precise data type for weights and activations, including INT8 formats. AWS Prescriptive Guidance also states that quantization reduces memory footprint by converting higher-precision weights to lower-precision formats such as FP16 to INT8. That matches the description of reducing memory usage by representing model weights with lower precision.

For 2, the correct answer is Low-rank adaptation (LoRA). In practice, LoRA is a standard parameter-efficient fine-tuning (PEFT) method that updates only a small subset of trainable parameters instead of full-model fine-tuning. In SageMaker JumpStart workflows for large language models, LoRA is used specifically to make fine-tuning large models more efficient by training adapter-style low-rank updates rather than all original model weights. This matches the description of a PEFT technique that trains only a subset of model parameters.

For 3, the correct answer is Fully Sharded Data Parallel (FSDP). AWS documentation states that SageMaker model parallelism integrates with PyTorch FSDP, which shards model states across GPUs and supports large-scale distributed training. That directly matches the description of a distributed training technique used to share or shard model parameters across GPUs.

NEW QUESTION # 240

A company has a custom extract, transform, and load (ETL) process that runs on premises. The ETL process is written in the R language and runs for an average of 6 hours. The company wants to migrate the process to run on AWS.

Which solution will meet these requirements?

- A. Use Amazon SageMaker AI processing jobs with a custom Docker image stored in Amazon Elastic Container Registry (Amazon ECR).
- B. Use Amazon SageMaker AI script mode to build a Docker image. Run the ETL jobs by using SageMaker Notebook Jobs.
- C. Use AWS Glue to prepare and run the ETL jobs.
- D. Use an AWS Lambda function created from a container image to run the ETL jobs.

Answer: A

Explanation:

The ETL process has two critical characteristics: it is long-running (6 hours) and written in R. AWS Lambda is unsuitable because it has a maximum execution time of 15 minutes. AWS Glue primarily supports Spark-based ETL and does not natively support custom R-based workloads.

AWS documentation recommends using Amazon SageMaker Processing Jobs for long-running, custom data processing workloads. Processing jobs allow users to run arbitrary code in custom Docker containers, making them ideal for migrating on-premises ETL jobs written in R.

By building a custom Docker image that includes the R runtime and required libraries and storing it in Amazon ECR, the company can run the ETL job at scale on managed infrastructure without rewriting the code. SageMaker script mode is intended for training, not ETL. Therefore, SageMaker processing jobs with a custom container are the correct solution.

NEW QUESTION # 241

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