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Amazon MLA-C01 Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<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.
Topic 3	<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 4	<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.

Amazon AWS Certified Machine Learning Engineer - Associate Sample Questions (Q113-Q118):

NEW QUESTION # 113

A company has a conversational AI assistant that sends requests through Amazon Bedrock to an Anthropic Claude large language model (LLM). Users report that when they ask similar questions multiple times, they sometimes receive different answers. An ML engineer needs to improve the responses to be more consistent and less random. Which solution will meet these requirements?

- A. Increase the temperature parameter. Decrease the top_k parameter.
- B. Decrease the temperature parameter. Increase the top_k parameter.
- C. Increase the temperature parameter and the top_k parameter.
- **D. Decrease the temperature parameter and the top_k parameter.**

Answer: D

Explanation:

The temperature parameter controls the randomness in the model's responses. Lowering the temperature makes the model produce more deterministic and consistent answers.

The top_k parameter limits the number of tokens considered for generating the next word. Reducing top_k further constrains the model's options, ensuring more predictable responses.

By decreasing both parameters, the responses become more focused and consistent, reducing variability in similar queries.

NEW QUESTION # 114

A company is creating an application that will recommend products for customers to purchase.

The application will make API calls to Amazon Q Business. The company must ensure that responses from Amazon Q Business do not include the name of the company's main competitor.

Which solution will meet this requirement?

- A. Configure an Amazon Q Business retriever to exclude the competitor's name.
- **B. Configure the competitor's name as a blocked phrase in Amazon Q Business.**
- C. Configure document attribute boosting in Amazon Q Business to deprioritize the competitor's name.
- D. Configure an Amazon Kendra retriever for Amazon Q Business to build indexes that exclude the competitor's name.

Answer: B

NEW QUESTION # 115

A company is training a large language model (LLM) by using on-premises infrastructure. A live conversational engine uses the LLM to help customers find real-time insights in credit card data.

An ML engineer must implement a solution to train and deploy the LLM on Amazon SageMaker.

Which solution will meet these requirements?

- A. Use SageMaker Studio to train the LLM. Deploy the LLM by using SageMaker batch transform.
- B. Use SageMaker Notebook Jobs to train the LLM. Deploy the LLM by using SageMaker Asynchronous Inference.
- **C. Use SageMaker Training Compiler to train the LLM. Deploy the LLM by using SageMaker real-time inference.**
- D. Use SageMaker with deep learning containers for large model inference to train the LLM. Deploy the LLM by using SageMaker real-time inference.

Answer: C

Explanation:

SageMaker Training Compiler accelerates training of large models like LLMs by optimizing GPU utilization, making it suitable for efficient large-scale training. For deployment of a live conversational engine that requires real-time responses, the correct choice is a SageMaker real-time inference endpoint. This combination meets both training and deployment requirements effectively.

NEW QUESTION # 116

An ML engineer needs to use data with Amazon SageMaker Canvas to train an ML model. The data is stored in Amazon S3 and is complex in structure. The ML engineer must use a file format that minimizes processing time for the data.

Which file format will meet these requirements?

- A. JSON files compressed with gzip
- B. CSV files compressed with Snappy
- C. JSON objects in JSONL format
- **D. Apache Parquet files**

Answer: D

NEW QUESTION # 117

A company runs an Amazon SageMaker domain in a public subnet of a newly created VPC. The network is configured properly, and ML engineers can access the SageMaker domain.

Recently, the company discovered suspicious traffic to the domain from a specific IP address. The company needs to block traffic from the specific IP address.

Which update to the network configuration will meet this requirement?

- A. Create a shadow variant for the domain. Configure SageMaker Inference Recommender to send traffic from the specific IP address to the shadow endpoint.
- B. Create a VPC route table to deny inbound traffic from the specific IP address. Assign the route table to the domain.
- C. Create a security group inbound rule to deny traffic from the specific IP address. Assign the security group to the domain.
- **D. Create a network ACL inbound rule to deny traffic from the specific IP address. Assign the rule to the default network ACL for the subnet where the domain is located.**

Answer: D

Explanation:

Network ACLs (Access Control Lists) operate at the subnet level and allow for rules to explicitly deny traffic from specific IP addresses. By creating an inbound rule in the network ACL to deny traffic from the suspicious IP address, the company can block traffic to the Amazon SageMaker domain from that IP. This approach works because network ACLs are evaluated before traffic reaches the security groups, making them effective for blocking traffic at the subnet level.

NEW QUESTION # 118

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In the era of information explosion, people are more longing for knowledge, which bring up people with ability by changing their thirst for knowledge into initiative and "want me to learn" into "I want to learn". As a result thousands of people put a premium on obtaining MLA-C01 certifications to prove their ability. With the difficulties and inconveniences existing for many groups of people

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