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MLA-C01 Advanced Testing Engine - New MLA-C01 Real Test

This is similar to the MLA-C01 desktop format but this is browser-based. It requires an active internet connection to run and is compatible with all browsers such as Google Chrome, Mozilla Firefox, Opera, MS Edge, Safari, Internet Explorer, and others. The Amazon MLA-C01 Mock Exam helps you self-evaluate your Amazon MLA-C01 exam preparation and mistakes. This way you improve consistently and attempt the MLA-C01 certification exam in an optimal way for excellent results in the exam.

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"> 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 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"> 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.

Amazon AWS Certified Machine Learning Engineer - Associate Sample Questions (Q146-Q151):

NEW QUESTION # 146

Case Study

An ML engineer is developing a fraud detection model on AWS. The training dataset includes transaction logs, customer profiles, and tables from an on-premises MySQL database. The transaction logs and customer profiles are stored in Amazon S3.

The dataset has a class imbalance that affects the learning of the model's algorithm. Additionally, many of the features have interdependencies. The algorithm is not capturing all the desired underlying patterns in the data.

The ML engineer needs to use an Amazon SageMaker built-in algorithm to train the model.

Which algorithm should the ML engineer use to meet this requirement?

- A. Neural Topic Model (NTM)
- B. LightGBM**
- C. K-means clustering
- D. Linear learner

Answer: B

NEW QUESTION # 147

An ML engineer is evaluating several ML models and must choose one model to use in production. The cost of false negative predictions by the models is much higher than the cost of false positive predictions.

Which metric finding should the ML engineer prioritize the MOST when choosing the model?

- A. High recall**
- B. High precision
- C. Low recall
- D. Low precision

Answer: A

Explanation:

Recall measures the ability of a model to correctly identify all positive cases (true positives) out of all actual positives, minimizing false negatives. Since the cost of false negatives is much higher than false positives in this scenario, the ML engineer should prioritize models with high recall to reduce the likelihood of missing positive cases.

NEW QUESTION # 148

A company is interested in building a fraud detection model. Currently, the data scientist does not have a sufficient amount of information due to the low number of fraud cases.

Which method is MOST likely to detect the GREATEST number of valid fraud cases?

- A. Undersampling
- B. Class weight adjustment
- C. Oversampling using bootstrapping
- D. **Oversampling using SMOTE**

Answer: D

Explanation:

With datasets that are not fully populated, the Synthetic Minority Over-sampling Technique (SMOTE) adds new information by adding synthetic data points to the minority class. This technique would be the most effective in this scenario.

NEW QUESTION # 149

A company is developing a new online application to gather information from customers. An ML engineer has developed a new ML model that will determine a score for each customer. The model will use the score to determine which product to display to the customer. The ML engineer needs to minimize response-time latency for the model. How should the ML engineer deploy the application in Amazon SageMaker to meet these requirements?

- A. **Configure a real-time inference endpoint.**
- B. Configure a serverless inference endpoint.
- C. Configure an asynchronous inference endpoint.
- D. Configure batch transform

Answer: A

Explanation:

To minimize response-time latency, the ML model should be deployed to a real-time inference endpoint in Amazon SageMaker. This provides low-latency predictions by keeping the model loaded and ready to handle incoming requests, which is critical for an online application serving customers in real time.

NEW QUESTION # 150

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 Kendra retriever for Amazon Q Business to build indexes that 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 Q Business retriever to exclude the competitor's name.

Answer: B

NEW QUESTION # 151

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