

# MLA-C01 Valid Study Notes - New MLA-C01 Exam Practice



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## Amazon MLA-C01 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"> <li>• 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.</li> </ul>
Topic 2	<ul style="list-style-type: none"> <li>• 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</li> <li>• 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.</li> </ul>
Topic 3	<ul style="list-style-type: none"> <li>• 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.</li> </ul>
Topic 4	<ul style="list-style-type: none"> <li>• 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.</li> </ul>

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### Amazon AWS Certified Machine Learning Engineer - Associate Sample Questions (Q163-Q168):

#### NEW QUESTION # 163

An ML engineer is training a simple neural network model. The ML engineer tracks the performance of the model over time on a validation dataset. The model's performance improves substantially at first and then degrades after a specific number of epochs. Which solutions will mitigate this problem? (Choose two.)

- A. Increase the number of neurons.
- **B. Increase dropout in the layers.**
- C. Investigate and reduce the sources of model bias.
- **D. Enable early stopping on the model.**
- E. Increase the number of layers.

**Answer: B,D**

Explanation:

Early stopping halts training once the performance on the validation dataset stops improving. This prevents the model from overfitting, which is likely the cause of performance degradation after a certain number of epochs.

Dropout is a regularization technique that randomly deactivates neurons during training, reducing overfitting by forcing the model to generalize better. Increasing dropout can help mitigate the problem of performance degradation due to overfitting.

#### NEW QUESTION # 164

A company shares Amazon SageMaker Studio notebooks that are accessible through a VPN.

The company must enforce access controls to prevent malicious actors from exploiting presigned URLs to access the notebooks. Which solution will meet these requirements?

- A. Set up Studio client VPC validation by using the `aws:sourceVpc` IAM policy condition.
- **B. Set up Studio client IP validation by using the `aws:sourceIp` IAM policy condition.**
- C. Set up Studio client user endpoint validation by using the `aws:PrincipalTag` IAM policy condition.
- D. Set up Studio client role endpoint validation by using the `aws:PrimaryTag` IAM policy condition.

**Answer: B**

#### NEW QUESTION # 165

A company is building a web-based AI application by using Amazon SageMaker. The application will provide the following capabilities and features: ML experimentation, training, a central model registry, model deployment, and model monitoring.

The application must ensure secure and isolated use of training data during the ML lifecycle. The training data is stored in Amazon S3.

The company needs to run an on-demand workflow to monitor bias drift for models that are deployed to real-time endpoints from the application.

Which action will meet this requirement?

- A. Use SageMaker notebooks to compare the bias.
- B. Use AWS Glue Data Quality to monitor bias.
- **C. Configure the application to invoke an AWS Lambda function that runs a SageMaker Clarify job.**
- D. Invoke an AWS Lambda function to pull the `sagemaker-model-monitor-analyzer` built-in SageMaker image.

**Answer: C**

**Explanation:**

Monitoring bias drift in deployed machine learning models is crucial to ensure fairness and accuracy over time. Amazon SageMaker Clarify provides tools to detect bias in ML models, both during training and after deployment. To monitor bias drift for models deployed to real-time endpoints, an effective approach involves orchestrating SageMaker Clarify jobs using AWS Lambda functions.

**Implementation Steps:**

**\* Set Up Data Capture:**

\* Enable data capture on the SageMaker endpoint to record input data and model predictions. This captured data serves as the basis for bias analysis.

**\* Develop a Lambda Function:**

\* Create an AWS Lambda function configured to initiate a SageMaker Clarify job. This function will process the captured data to assess bias metrics.

**\* Schedule or Trigger the Lambda Function:**

\* Configure the Lambda function to run on-demand or at scheduled intervals using Amazon CloudWatch Events or EventBridge.

This setup allows for regular bias monitoring as per the application's requirements.

**\* Analyze and Respond to Results:**

\* After each Clarify job completes, review the generated bias reports. If bias drift is detected, take appropriate actions, such as retraining the model or adjusting data preprocessing steps.

**Advantages of This Approach:**

\* **Automation:** Utilizing AWS Lambda for orchestrating Clarify jobs enables automated and scalable bias monitoring without manual intervention.

\* **Cost-Effectiveness:** AWS Lambda's serverless nature ensures that you only pay for the compute time consumed during the execution of the function, optimizing resource usage.

\* **Flexibility:** The solution can be tailored to specific monitoring needs, allowing for adjustments in monitoring frequency and analysis parameters.

By implementing this solution, the company can effectively monitor bias drift in real-time, ensuring that the AI application maintains fairness and accuracy throughout its lifecycle.

**References:**

Bias drift for models in production - Amazon SageMaker

Schedule Bias Drift Monitoring Jobs - Amazon SageMaker

**NEW QUESTION # 166**

A company uses AWS CodePipeline to orchestrate a continuous integration and continuous delivery (CI/CD) pipeline for ML models and applications.

Select and order the steps from the following list to describe a CI/CD process for a successful deployment.

Select each step one time. (Select and order FIVE.)

. CodePipeline deploys ML models and applications to production.

CodePipeline detects code changes and starts to build automatically.

. Human approval is provided after testing is successful.

. The company builds and deploys ML models and applications to staging servers for testing.

. The company commits code changes or new training datasets to a Git repository.

**Answer:**

**Explanation:**

□ **Explanation:**

**Step 1:**

The company commits code changes or new training datasets to a Git repository.

This is the trigger point. A source code or data change initiates the CI/CD pipeline.

**Step 2:**

CodePipeline detects code changes and starts to build automatically.

CodePipeline monitors the Git repository (for example, AWS CodeCommit, GitHub, or Bitbucket) and automatically triggers the pipeline when changes are detected.

**Step 3:**

The company builds and deploys ML models and applications to staging servers for testing.

The pipeline runs build, training, and test stages (often using AWS CodeBuild and SageMaker) and deploys artifacts to a staging or test environment for validation.

Step 4:

Human approval is provided after testing is successful.

A manual approval action is a best practice for ML workflows to ensure governance, compliance, and quality checks before production deployment.

Step 5:

CodePipeline deploys ML models and applications to production.

After approval, the pipeline automatically deploys the validated model or application to the production environment.

### NEW QUESTION # 167

An ML engineer normalized training data by using min-max normalization in AWS Glue DataBrew. The ML engineer must normalize production inference data in the same way before passing the data to the model.

Which solution will meet this requirement?

- **A. Keep the min-max normalization statistics from the training set and use them to normalize the production samples.**
- B. Calculate new min-max statistics from a batch of production samples and use them to normalize all production samples.
- C. Calculate new min-max statistics from each production sample and use them to normalize all production samples.
- D. Apply statistics from a well-known dataset to normalize the production samples.

**Answer: A**

Explanation:

AWS ML best practices state that data preprocessing applied during training must be applied identically during inference. For min-max normalization, this requires reusing the minimum and maximum values calculated from the training dataset.

If production data is normalized using different statistics, the feature distributions will differ from what the model learned, leading to degraded prediction accuracy. AWS documentation explicitly warns against recomputing normalization parameters on inference data.

Options A, C, and D introduce data leakage or inconsistent feature scaling. Option B ensures consistency between training and inference pipelines and preserves model integrity.

Therefore, Option B is the correct and AWS-aligned solution.

### NEW QUESTION # 168

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