Amazon MLA-C01 Training Courses: AWS Certified Machine Learning Engineer - Associate & Leader in Qualification Exams

Category	Associate
Exam duration	170 minutes
Exam format	85 questions
Cost	75 USD/10,000 JPY
Intended candidate	Individuals with at least 1 year of experience using Amazon SageMaker and other ML engineering AWS services
Candidate role examples	backend software developer, DevOps engineer, data engineer, MLOps engineer, and data scientist
Testing options	Pearson VUE testing center or online proctored exam
Languages offered	English, Japanese

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Amazon MLA-C01 Exam Syllabus Topics:

Topic	Details
Topic 1	• 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	• 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	• 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	• 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.

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Amazon AWS Certified Machine Learning Engineer - Associate Sample Questions (Q83-Q88):

NEW QUESTION # 83
Case Study
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 must implement a manual approval-based workflow to ensure that only approved models can be deployed to production endpoints.
Which solution will meet this requirement?

- A. Use SageMaker Experiments to facilitate the approval process during model registration.
- B. Use SageMaker ML Lineage Tracking on the central model registry. Create tracking entities for the approval process.
- C. Use SageMaker Model Monitor to evaluate the performance of the model and to manage the approval.
- D. Use SageMaker Pipelines. When a model version is registered, use the AWS SDK to change the approval status to " Approved. "

Answer: D

Explanation:
To implement a manual approval-based workflow ensuring that only approved models are deployed to production endpoints, Amazon SageMaker provides integrated tools such as SageMaker Pipelines and the SageMaker Model Registry.
SageMaker Pipelines is a robust service for building, automating, and managing end-to-end machine learning workflows. It facilitates the orchestration of various steps in the ML lifecycle, including data preprocessing, model training, evaluation, and deployment. By integrating with the SageMaker Model Registry, it enables seamless tracking and management of model versions and their approval statuses.
Implementation Steps:
Define the Pipeline:
Create a SageMaker Pipeline encompassing steps for data preprocessing, model training, evaluation, and registration of the model in the Model Registry.
Incorporate a Condition Step to assess model performance metrics. If the model meets predefined criteria, proceed to the next step; otherwise, halt the process.
Register the Model:
Utilize the RegisterModel step to add the trained model to the Model Registry.
Set the ModelApprovalStatus parameter to PendingManualApproval during registration. This status indicates that the model awaits manual review before deployment.
Manual Approval Process:
Notify the designated approver upon model registration. This can be achieved by integrating Amazon EventBridge to monitor registration events and trigger notifications via AWS Lambda functions.
The approver reviews the model ' s performance and, if satisfactory, updates the model ' s status to Approved using the AWS SDK or through the SageMaker Studio interface.
Deploy the Approved Model:
Configure the pipeline to automatically deploy models with an Approved status to the production endpoint.
This can be managed by adding deployment steps conditioned on the model ' s approval status.
Advantages of This Approach:
Automated Workflow: SageMaker Pipelines streamline the ML workflow, reducing manual interventions and potential errors.
Governance and Compliance: The manual approval step ensures that only thoroughly evaluated models are deployed, aligning with organizational standards.
Scalability: The solution supports complex ML workflows, making it adaptable to various project requirements.

By implementing this solution, the company can establish a controlled and efficient process for deploying models, ensuring that only approved versions reach production environments.
References:
Automate the machine learning model approval process with Amazon SageMaker Model Registry and Amazon SageMaker Pipelines Update the Approval Status of a Model - Amazon SageMaker

NEW QUESTION # 84
An ML engineer needs to merge and transform data from two sources to retrain an existing ML model. One data source consists of .csv files that are stored in an Amazon S3 bucket. Each .csv file consists of millions of records. The other data source is an Amazon Aurora DB cluster.
The result of the merge process must be written to a second S3 bucket. The ML engineer needs to perform this merge-and-transform task every week.
Which solution will meet these requirements with the LEAST operational overhead?

- A. Create an AWS Lambda function that runs Apache Spark code every week to merge and transform the data. Configure the Lambda function to connect to the initial S3 bucket and the DB cluster.
- B. Create a transient Amazon EMR cluster every week. Use the cluster to run an Apache Spark job to merge and transform the data.
- C. Create an AWS Batch job that runs Apache Spark code on Amazon EC2 instances every week.Configure the Spark code to save the data from the EC2 instances to the second S3 bucket.
- D. Create a weekly AWS Glue job that uses the Apache Spark engine. Use DynamicFrame native operations to merge and transform the data.

Answer: D

NEW QUESTION # 85
A company has an ML model that generates text descriptions based on images that customers upload to the company's website. The images can be up to 50 MB in total size.
An ML engineer decides to store the images in an Amazon S3 bucket. The ML engineer must implement a processing solution that can scale to accommodate changes in demand.
Which solution will meet these requirements with the LEAST operational overhead?

- A. Create an Amazon SageMaker batch transform job to process all the images in the S3 bucket.
- B. Create an Amazon SageMaker Asynchronous Inference endpoint and a scaling policy. Run a script to make an inference request for each image.
- C. Create an AWS Batch job that uses an Amazon Elastic Container Service (Amazon ECS) cluster.Specify a list of images to process for each AWS Batch job.
- D. Create an Amazon Elastic Kubernetes Service (Amazon EKS) cluster that uses Karpenter for auto scaling. Host the model on the EKS cluster. Run a script to make an inference request for each image.

Answer: B

NEW QUESTION # 86
An ML engineer is training an ML model to identify people's health risk based on 20 features and
1 target. The target class has two values:
- Likely to have health risk (positive class)
- Unlikely to have health risk (negative class)
The age range of people in the dataset is 30 years old to 60 years old. Age is one of the features.
The ML engineer analyzes the features. For the positive class, the difference in proportions of labels (DPL) value is (+0.9) for the age range of 40 to 45 compared with all other age ranges.
What should the ML engineer do to correct this data imbalance?

- A. Undersample the positive class for all age ranges except 40 to 45.
- B. Undersample the positive class for the age range of 40 to 45.
- C. Oversample the positive class for the age range of 40 to 45.
- D. Oversample the negative class for all age ranges except 40 to 45.

Answer: B

Explanation:
A DPL of +0.9 indicates that the positive class is heavily overrepresented in the 40-45 age range compared to other age ranges. To correct this imbalance, the solution is to undersample the positive class within the 40-45 range, reducing its dominance and improving fairness in the dataset.

NEW QUESTION # 87
A company uses the Amazon SageMaker AI Object2Vec algorithm to train an ML model. The model performs well on training data but underperforms after deployment. The company wants to avoid overfitting the model and maintain the model's ability to generalize.
Which solution will meet these requirements?

- A. Increase the mini_batch_size hyperparameter.
- B. Decrease the early_stopping_patience hyperparameter.
- C. Increase the number of epochs.
- D. Decrease the dropout rate.

Answer: B

Explanation:
The described behavior-strong performance on training data but poor performance in production-is a classic sign of overfitting. AWS documentation for Amazon SageMaker Object2Vec highlights early stopping as a key regularization technique to prevent models from learning noise in the training data.
The early_stopping_patience hyperparameter controls how many additional epochs the training job will run after the validation loss stops improving. Decreasing this value causes training to stop earlier, reducing the chance that the model overfits to the training dataset.
Option B increases batch size, which may improve training efficiency but does not directly address overfitting. Option C decreases the dropout rate, which actually increases overfitting risk, since dropout is a regularization mechanism. Option D increases epochs, which further worsens overfitting.
AWS best practices emphasize early stopping combined with validation metrics as one of the most effective ways to maintain generalization performance in neural embedding models such as Object2Vec.
Therefore, Option A is the correct and AWS-aligned solution.

NEW QUESTION # 88
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