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Amazon AWS Certified Machine Learning Engineer - Associate Sample Questions (Q188-Q193):

NEW QUESTION # 188

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

Answer: B

NEW QUESTION # 189

A company has AWS Glue data processing jobs that are orchestrated by an AWS Glue workflow.

The AWS Glue jobs can run on a schedule or can be launched manually.

The company is developing pipelines in Amazon SageMaker Pipelines for ML model development. The pipelines will use the output of the AWS Glue jobs during the data processing phase of model development. An ML engineer needs to implement a solution that integrates the AWS Glue jobs with the pipelines.

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

- A. Use AWS Step Functions for orchestration of the pipelines and the AWS Glue jobs.
- B. Use processing steps in SageMaker Pipelines. Configure inputs that point to the Amazon Resource Names (ARNs) of the AWS Glue jobs.
- **C. Use Callback steps in SageMaker Pipelines to start the AWS Glue workflow and to stop the pipelines until the AWS Glue jobs finish running.**
- D. Use Amazon EventBridge to invoke the pipelines and the AWS Glue jobs in the desired order.

Answer: C

NEW QUESTION # 190

A company is building a deep learning model on Amazon SageMaker. The company uses a large amount of data as the training dataset. The company needs to optimize the model's hyperparameters to minimize the loss function on the validation dataset.

Which hyperparameter tuning strategy will accomplish this goal with the LEAST computation time?

- A. Random search
- **B. Hyperband**
- C. Bayesian optimization
- D. Grid search

Answer: B

NEW QUESTION # 191

A company runs Amazon SageMaker ML models that use accelerated instances. The models require real-time responses. Each model has different scaling requirements. The company must not allow a cold start for the models.

Which solution will meet these requirements?

- A. Create a SageMaker Serverless Inference endpoint for each model. Use provisioned concurrency for the endpoints.
- **B. Create a SageMaker endpoint. Create an inference component for each model. In the inference component settings, specify the newly created endpoint. Create an auto scaling policy for each inference component. Set the parameter for the minimum number of copies to at least 1.**
- C. Create an Amazon S3 bucket. Store all the model artifacts in the S3 bucket. Create a SageMaker multi-model endpoint.

Point the endpoint to the S3 bucket. Create an auto scaling policy for the endpoint. Set the parameter for the minimum number of copies to at least 1.

- D. Create a SageMaker Asynchronous Inference endpoint for each model. Create an auto scaling policy for each endpoint.

Answer: B

NEW QUESTION # 192

An ML engineer is building a logistic regression model to predict customer churn for subscription services. The dataset contains two string variables: location and job_seniority_level. The location variable has 3 distinct values, and the job_seniority_level variable has over 10 distinct values. The ML engineer must perform preprocessing on the variables. Which solution will meet this requirement?

- A. Apply binning to location. Apply standard scaling to job_seniority_level.
- B. Apply tokenization to location. Apply ordinal encoding to job_seniority_level.
- C. Apply one-hot encoding to location. Apply standard scaling to job_seniority_level.
- **D. Apply one-hot encoding to location. Apply ordinal encoding to job_seniority_level.**

Answer: D

Explanation:

Logistic regression requires numeric input features and is sensitive to how categorical variables are encoded.

AWS feature engineering best practices recommend one-hot encoding for low-cardinality categorical variables with no inherent order and ordinal encoding for categorical variables with a meaningful order.

The location feature has only three distinct values and no ordinal relationship, making one-hot encoding the most appropriate method. This prevents the model from inferring a false numerical relationship between locations.

The job_seniority_level feature typically has an inherent order (for example: junior, mid-level, senior, lead).

Even with more than 10 categories, ordinal encoding preserves this natural hierarchy while keeping the feature dimensionality manageable.

Tokenization is used for unstructured text, not structured categorical variables. Standard scaling applies only to continuous numeric features and is not suitable for categorical string variables.

AWS documentation explicitly highlights using one-hot encoding for nominal features and ordinal encoding for ordered categorical features when preparing data for linear models such as logistic regression.

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

NEW QUESTION # 193

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Learning knowledge is not only to increase the knowledge reserve, but also to understand how to apply it, and to carry out the theories and principles that have been learned into the specific answer environment. Studying for attending AWS Certified Machine Learning Engineer - Associate exam pays attention to the method. The good method often can bring the result with half the effort, therefore we in the examination time, and also should know some test-taking skill. The MLA-C01 Quiz guide on the basis of summarizing the past years, found that many of the questions, the answers have certain rules can be found, either subjective or objective questions, we can find in the corresponding module of similar things in common.

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