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Amazon MLA-C01 Exam Syllabus Topics:

Topic	Details

Topic 1	<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 2	<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 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 (Q80-Q85):

NEW QUESTION # 80

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

Answer: A,E

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 # 81

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 and the top_k parameter.
- B. Decrease the temperature parameter and the top_k parameter.
- C. Decrease the temperature parameter. Increase the top_k parameter.

- D. Increase the temperature parameter. Decrease the top_k parameter.

Answer: B

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 # 82

An ML engineer needs to use AWS services to identify and extract meaningful unique keywords from documents.

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

- A. Use the Natural Language Toolkit (NLTK) library on Amazon EC2 instances for text pre-processing. Use the Latent Dirichlet Allocation (LDA) algorithm to identify and extract relevant keywords.
- B. Store the documents in an Amazon S3 bucket. Create AWS Lambda functions to process the documents and to run Python scripts for stemming and removal of stop words. Use bigram and trigram techniques to identify and extract relevant keywords.
- **C. Use Amazon Comprehend custom entity recognition and key phrase extraction to identify and extract relevant keywords.**
- D. Use Amazon SageMaker and the BlazingText algorithm. Apply custom pre-processing steps for stemming and removal of stop words. Calculate term frequency-inverse document frequency (TF-IDF) scores to identify and extract relevant keywords.

Answer: C

NEW QUESTION # 83

A company wants to launch a new internal generative AI interface to answer user questions. The interface will be based on a popular open source large language model (LLM). Which combination of steps will deploy the interface with the LEAST operational overhead? (Choose two.)

- **A. Create a frontend HTML interface that uses an Amazon API Gateway WebSocket API with AWS Lambda functions to handle the user interaction.**
- B. Use Amazon Lex to create a UI to handle the user interaction.
- **C. Use Amazon SageMaker JumpStart to deploy the LLM.**
- D. Use Amazon QuickSight to create a UI to handle the user interaction.
- E. Download the LLM as a .zip file. Deploy the LLM on a GPU-based Amazon EC2 instance.

Answer: A,C

Explanation:

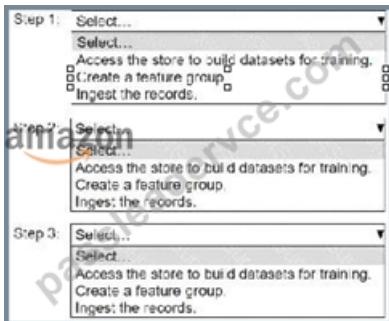
The least operational overhead comes from using Amazon SageMaker JumpStart to quickly deploy the open source LLM without needing to manage infrastructure, and building a lightweight frontend HTML interface with API Gateway WebSocket API and Lambda to handle user interactions efficiently. This avoids the manual setup of EC2 or unrelated services like QuickSight or Lex.

NEW QUESTION # 84

An ML engineer needs to use Amazon SageMaker Feature Store to create and manage features to train a model.

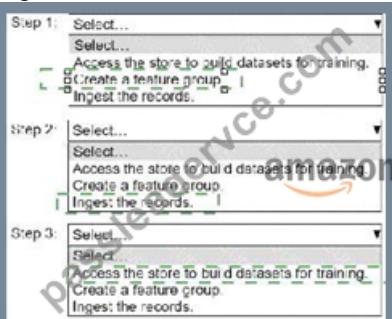
Select and order the steps from the following list to create and use the features in Feature Store. Each step should be selected one time. (Select and order three.)

- * Access the store to build datasets for training.
- * Create a feature group.
- * Ingest the records.

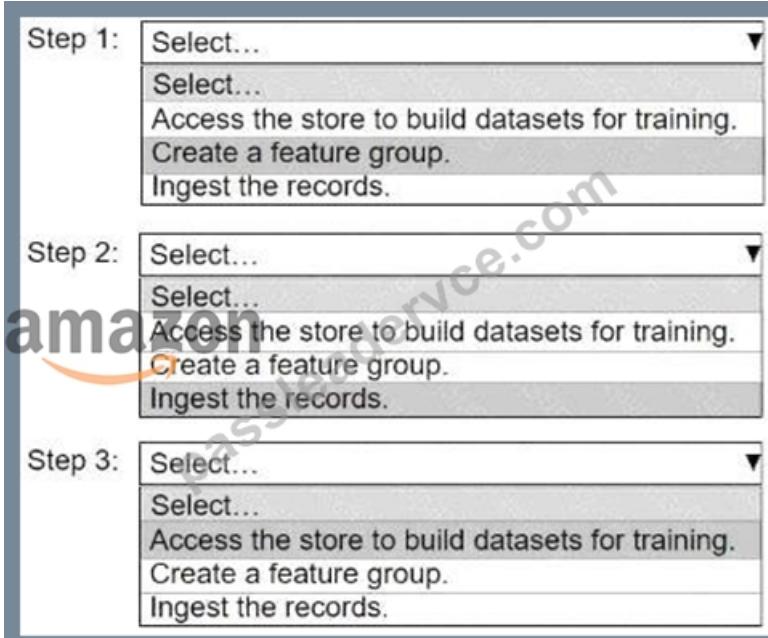


Answer:

Explanation:



Explanation:



Step 1: Create a feature group. Step 2: Ingest the records. Step 3: Access the store to build datasets for training.

* Step 1: Create a Feature Group

* Why? A feature group is the foundational unit in SageMaker Feature Store, where features are defined, stored, and organized.

Creating a feature group specifies the schema (name, data type) for the features and the primary keys for data identification.

* How? Use the SageMaker Python SDK or AWS CLI to define the feature group by specifying its name, schema, and S3 storage location for offline access.

* Step 2: Ingest the Records

* Why? After creating the feature group, the raw data must be ingested into the Feature Store. This step populates the feature group with data, making it available for both real-time and offline use.

* How? Use the SageMaker SDK or AWS CLI to batch-ingest historical data or stream new records into the feature group. Ensure the records conform to the feature group schema.

* Step 3: Access the Store to Build Datasets for Training

* Why? Once the features are stored, they can be accessed to create training datasets. These datasets combine relevant features into a single format for machine learning model training.

* How? Use the SageMaker Python SDK to query the offline store or retrieve real-time features using the online store API. The offline store is typically used for batch training, while the online store is used for inference.

Order Summary:

- * Create a feature group.
- * Ingest the records.
- * Access the store to build datasets for training

This process ensures the features are properly managed, ingested, and accessible for model training using Amazon SageMaker Feature Store.

NEW QUESTION # 85

The AWS Certified Machine Learning Engineer - Associate MLA-C01 certification provides both novices and experts with a fantastic opportunity to show off their knowledge of and proficiency in carrying out a particular task. With the Amazon MLA-C01 exam, you will have the chance to update your knowledge while obtaining dependable evidence of your proficiency. You can also get help from actual AWS Certified Machine Learning Engineer - Associate MLA-C01 Exam Questions and pass your dream AWS Certified Machine Learning Engineer - Associate MLA-C01 certification exam.

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