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Amazon AWS Certified AI Practitioner Sample Questions (Q136-Q141):

NEW QUESTION # 136

A company wants to use a pre-trained generative AI model to generate content for its marketing campaigns. The company needs to ensure that the generated content aligns with the company's brand voice and messaging requirements.

Which solution meets these requirements?

- A. Select a large, diverse dataset to pre-train a new generative model.
- B. **Create effective prompts that provide clear instructions and context to guide the model's generation.**
- C. Increase the model's complexity by adding more layers to the model's architecture.
- D. Optimize the model's architecture and hyperparameters to improve the model's overall performance.

Answer: B

Explanation:

Creating effective prompts is the best solution to ensure that the content generated by a pre-trained generative AI model aligns with the company's brand voice and messaging requirements.

Effective Prompt Engineering:

Involves crafting prompts that clearly outline the desired tone, style, and content guidelines for the model.

By providing explicit instructions in the prompts, the company can guide the AI to generate content that matches the brand's voice and messaging.

Why Option C is Correct:

Guides Model Output: Ensures the generated content adheres to specific brand guidelines by shaping the model's response through the prompt.

Flexible and Cost-effective: Does not require retraining or modifying the model, which is more resource-efficient.

Why Other Options are Incorrect:

A . Optimize the model's architecture and hyperparameters: Improves model performance but does not specifically address alignment with brand voice.

B . Increase model complexity: Adding more layers may not directly help with content alignment.

D . Pre-training a new model: Is a costly and time-consuming process that is unnecessary if the goal is content alignment.

NEW QUESTION # 137

A company wants to build an ML application.

Select and order the correct steps from the following list to develop a well-architected ML workload. Each step should be selected one time. (Select and order FOUR.)

- * Deploy model
- * Develop model
- * Monitor model
- * Define business goal and frame ML problem

Step 1:	<input type="button" value="Select..."/> <input type="button" value="Select..."/> Deploy model Develop model Monitor model Define business goal and frame ML problem
Step 2:	<input type="button" value="Select..."/> <input type="button" value="Select..."/> Deploy model Develop model Monitor model Define business goal and frame ML problem
Step 3:	<input type="button" value="Select..."/> <input type="button" value="Select..."/> Deploy model Develop model Monitor model Define business goal and frame ML problem
Step 4:	<input type="button" value="Select..."/> <input type="button" value="Select..."/> Deploy model Develop model Monitor model Define business goal and frame ML problem

Answer:

Explanation:

Step 1:	Select... Select... Deploy model Develop model Monitor model Define business goal and frame ML problem
Step 2:	Select... Select... Deploy model Develop model Monitor model Define business goal and frame ML problem
Step 3:	Select... Select... Deploy model Develop model Monitor model Define business goal and frame ML problem
Step 4:	Select... Select... Deploy model Develop model Monitor model Define business goal and frame ML problem

Explanation:

Step 1:	Define business goal and frame ML problem
Step 2:	Develop model
Step 3:	Deploy model
Step 4:	Monitor model

Building a well-architected ML workload follows a structured lifecycle as outlined in AWS best practices.

The process begins with defining the business goal and framing the ML problem to ensure the project aligns with organizational objectives. Next, the model is developed, which includes data preparation, training, and evaluation. Once the model is ready, it is deployed to make predictions in a production environment. Finally, the model is monitored to ensure it performs as expected and to address any issues like drift or degradation over time. This order ensures a systematic approach to ML development.

Exact Extract from AWS AI Documents:

From the AWS AI Practitioner Learning Path:

"The machine learning lifecycle typically follows these stages: 1) Define the business goal and frame the ML problem, 2) Develop the model (including data preparation, training, and evaluation), 3) Deploy the model to production, and 4) Monitor the model for performance and drift to ensure it continues to meet business needs." (Source: AWS AI Practitioner Learning Path, Module on Machine Learning Lifecycle) Detailed Explanation:

Step 1: Define business goal and frame ML problem This is the first step in any ML project. It involves understanding the business objective (e.g., reducing churn) and framing the ML problem (e.g., classification or regression). Without this step, the project lacks direction. The hotspot lists this option as "Define business goal and frame ML problem," which matches this stage.

Step 2: Develop model After defining the problem, the next step is to develop the model. This includes collecting and preparing data,

selecting an algorithm, training the model, and evaluating its performance. The hotspot lists "Develop model" as an option, aligning with this stage.

Step 3: Deploy model Once the model is developed and meets performance requirements, it is deployed to a production environment to make predictions or automate decisions. The hotspot includes "Deploy model" as an option, which fits this stage.

Step 4: Monitor model After deployment, the model must be monitored to ensure it performs well over time, addressing issues like data drift or performance degradation. The hotspot lists "Monitor model" as an option, completing the lifecycle.

Hotspot Selection Analysis:

The hotspot provides four steps, each with the same dropdown options: "Select...," "Deploy model," "Develop model," "Monitor model," and "Define business goal and frame ML problem." The correct selections are:

Step 1: Define business goal and frame ML problem

Step 2: Develop model

Step 3: Deploy model

Step 4: Monitor model

Each option is used exactly once, as required, and follows the logical order of the ML lifecycle.

References:

AWS AI Practitioner Learning Path: Module on Machine Learning Lifecycle Amazon SageMaker Developer Guide: Machine Learning Workflow (<https://docs.aws.amazon.com/sagemaker/latest/dg/how-it-works-mlconcepts.html>)

AWS Well-Architected Framework: Machine Learning Lens (<https://docs.aws.amazon.com/wellarchitected/latest/machine-learning-lens/>)

NEW QUESTION # 138

A company stores customer personally identifiable information (PII) data. The company must store the PII data within the company's AWS Region.

Which aspect of governance does this describe?

- A. Data mining
- B. Pre-training bias
- C. Data residency
- D. Geolocation routing

Answer: C

Explanation:

Comprehensive and Detailed Explanation From Exact AWS AI documents:

Data residency refers to requirements that dictate where data is physically stored and processed, often to meet regulatory, legal, or organizational policies.

AWS governance guidance emphasizes that:

- * PII data may be legally required to remain within a specific geographic region
- * Customers can control data location by selecting AWS Regions
- * Data residency is a core component of data governance and compliance

Why the other options are incorrect:

- * Data mining (A) refers to extracting insights from data.
- * Pre-training bias (C) relates to model training data, not storage location.
- * Geolocation routing (D) concerns request routing, not data governance.

AWS AI document references:

- * AWS Data Governance and Residency
- * Responsible AI and Data Management on AWS
- * Security and Compliance in AWS Regions

NEW QUESTION # 139

A company has multiple datasets that contain historical data

a. The company wants to use ML technologies to process each dataset.

Select the correct ML technology from the following list for each dataset. Select each ML technology one time or not at all. (Select THREE.) Computer vision Natural language processing (NLP) Reinforcement learning Time series forecasting

A dataset that contains text-based customer reviews

amazon

A dataset that contains images of animals labeled with their species names

A dataset that contains daily sales volumes for products

Select...
Select...
Computer vision
Natural language processing (NLP)
Reinforcement learning
Time series forecasting

Select...
Select...
Computer vision
Natural language processing (NLP)
Reinforcement learning
Time series forecasting

Select...
Select...
Computer vision
Natural language processing (NLP)
Reinforcement learning
Time series forecasting

Answer:

Explanation:

A dataset that contains text-based customer reviews

amazon

A dataset that contains images of animals labeled with their species names

A dataset that contains daily sales volumes for products

Select...
Select...
Computer vision
Natural language processing (NLP)
Reinforcement learning
Time series forecasting

Select...
Select...
Computer vision
Natural language processing (NLP)
Reinforcement learning
Time series forecasting

Select...
Select...
Computer vision
Natural language processing (NLP)
Reinforcement learning
Time series forecasting

NEW QUESTION # 140

A financial company is developing a fraud detection system that flags potential fraud cases in credit card transactions. Employees will evaluate the flagged fraud cases. The company wants to minimize the amount of time the employees spend reviewing flagged fraud cases that are not actually fraudulent.

Which evaluation metric meets these requirements?

- A. Accuracy
- B. Precision
- C. Recall
- D. Lift chart

Answer: B

Explanation:

Precision is the metric that measures the proportion of true positives (actual frauds) among all flagged positives (flagged frauds). High

precision ensures that most of the flagged cases are truly fraudulent, minimizing the number of false positives employees must review. C is correct:

"Precision is the ratio of true positives to all predicted positives, and it answers: 'Of all the cases flagged as fraud, how many were actually fraud?' High precision means fewer non-fraudulent cases are sent for manual review." (Reference: AWS ML Concepts - Precision and Recall, AWS Certified AI Practitioner Study Guide)

"Precision is the ratio of true positives to all predicted positives, and it answers: 'Of all the cases flagged as fraud, how many were actually fraud?' High precision means fewer non-fraudulent cases are sent for manual review." (Reference: AWS ML Concepts - Precision and Recall, AWS Certified AI Practitioner Study Guide) A (Recall) measures how many actual frauds are caught, but does not minimize false positives.

B (Accuracy) can be misleading in imbalanced datasets (like fraud detection).

NEW QUESTION # 141

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