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Amazon AIF-C01 Exam Syllabus Topics:

Topic	Details
Topic 1	Guidelines for Responsible AI: This domain highlights the ethical considerations and best practices for deploying AI solutions responsibly, including ensuring fairness and transparency. It is aimed at AI practitioners, including data scientists and compliance officers, who are involved in the development and deployment of AI systems and need to adhere to ethical standards.
Topic 2	Fundamentals of AI and ML: This domain covers the fundamental concepts of artificial intelligence (AI) and machine learning (ML), including core algorithms and principles. It is aimed at individuals new to AI and ML, such as entry-level data scientists and IT professionals.
Topic 3	Fundamentals of Generative AI: This domain explores the basics of generative AI, focusing on techniques for creating new content from learned patterns, including text and image generation. It targets professionals interested in understanding generative models, such as developers and researchers in AI.

Topic 4	Applications of Foundation Models: This domain examines how foundation models, like large language models, are used in practical applications. It is designed for those who need to understand the real-world implementation of these models, including solution architects and data engineers who work with AI technologies to solve complex problems.
Topic 5	Security, Compliance, and Governance for AI Solutions: This domain covers the security measures, compliance requirements, and governance practices essential for managing AI solutions. It targets security professionals, compliance officers, and IT managers responsible for safeguarding AI systems, ensuring regulatory compliance, and implementing effective governance frameworks.

Amazon AWS Certified AI Practitioner Sample Questions (Q134-Q139):

NEW QUESTION # 134

A company wants to develop ML applications to improve business operations and efficiency.

Select the correct ML paradigm from the following list for each use case. Each ML paradigm should be selected one or more times. (Select FOUR.)

* Supervised learning

* Unsupervised learning

The screenshot shows a quiz interface with four use cases and their corresponding ML paradigm selection dropdowns:

- Binary classification:** Select... (dropdown menu open showing Supervised learning, Unsupervised learning)
- Multi-class classification:** Select... (dropdown menu open showing Supervised learning, Unsupervised learning)
- K-means clustering:** Select... (dropdown menu open showing Supervised learning, Unsupervised learning)
- Dimensionality reduction:** Select... (dropdown menu open showing Supervised learning, Unsupervised learning)

Answer:

Explanation:

The screenshot shows the same quiz interface with the correct answers highlighted in red boxes:

- Binary classification:** Supervised learning
- Multi-class classification:** Supervised learning
- K-means clustering:** Unsupervised learning
- Dimensionality reduction:** Unsupervised learning

Reference:

AWS AI Practitioner Learning Path: Module on Machine Learning Strategies Amazon SageMaker Developer Guide: Supervised and Unsupervised Learning (<https://docs.aws.amazon.com/sagemaker/latest/dg/algo.html>) AWS Documentation: Introduction to Machine Learning Paradigms (<https://aws.amazon.com/machine-learning/>)

NEW QUESTION # 135

A company is building a new generative AI chatbot. The chatbot uses an Amazon Bedrock foundation model (FM) to generate

responses. During testing, the company notices that the chatbot is prone to prompt injection attacks. What can the company do to secure the chatbot with the LEAST implementation effort?

- A. Use chain-of-thought prompting to produce secure responses.
- **B. Use Amazon Bedrock Guardrails content filters and denied topics.**
- C. Fine-tune the FM to avoid harmful responses.
- D. Change the FM to a more secure FM.

Answer: B

Explanation:

Amazon Bedrock Guardrails allow developers to create safeguards that filter harmful content and prevent sensitive topics from being discussed. This functionality helps mitigate prompt injection attacks with minimal implementation effort. According to the official Amazon Bedrock documentation:

"You can configure Guardrails for Amazon Bedrock to define denied topics, use content filters, and apply sensitive information filters, offering protection against prompt injection attacks with minimal development effort."

NEW QUESTION # 136

A company is using a pre-trained large language model (LLM) to extract information from documents. The company noticed that a newer LLM from a different provider is available on Amazon Bedrock. The company wants to transition to the new LLM on Amazon Bedrock.

What does the company need to do to transition to the new LLM?

- A. Create a new labeled dataset
- B. Perform feature engineering.
- **C. Adjust the prompt template.**
- D. Fine-tune the LLM.

Answer: C

Explanation:

Transitioning to a new large language model (LLM) on Amazon Bedrock typically involves minimal changes when the new model is pre-trained and available as a foundation model. Since the company is moving from one pre-trained LLM to another, the primary task is to ensure compatibility between the new model's input requirements and the existing application. Adjusting the prompt template is often necessary because different LLMs may have varying prompt formats, tokenization methods, or response behaviors, even for similar tasks like document extraction.

Exact Extract from AWS AI Documents:

From the AWS Bedrock User Guide:

"When switching between foundation models in Amazon Bedrock, you may need to adjust the prompt template to align with the new model's expected input format and optimize its performance for your use case.

Prompt engineering is critical to ensure the model understands the task and generates accurate outputs." (Source: AWS Bedrock User Guide, Prompt Engineering for Foundation Models) Detailed Explanation:

Option A: Create a new labeled dataset. Creating a new labeled dataset is unnecessary when transitioning to a new pre-trained LLM, as pre-trained models are already trained on large datasets. This option would only be relevant if the company were training a custom model from scratch, which is not the case here.

Option B: Perform feature engineering. Feature engineering is typically associated with traditional machine learning models, not pre-trained LLMs. LLMs process raw text inputs, and transitioning to a new LLM does not require restructuring input features. This option is incorrect.

Option C: Adjust the prompt template. This is the correct approach. Different LLMs may interpret prompts differently due to variations in training data, tokenization, or model architecture. Adjusting the prompt template ensures the new LLM understands the task (e.g., document extraction) and produces the desired output format. AWS documentation emphasizes prompt engineering as a key step when adopting a new foundation model.

Option D: Fine-tune the LLM. Fine-tuning is not required for transitioning to a new pre-trained LLM unless the company needs to customize the model for a highly specific task. Since the question does not indicate a need for customization beyond document extraction (a common LLM capability), fine-tuning is unnecessary.

References:

AWS Bedrock User Guide: Prompt Engineering for Foundation Models (<https://docs.aws.amazon.com/bedrock/latest/userguide/prompt-engineering.html>)

AWS AI Practitioner Learning Path: Module on Working with Foundation Models in Amazon Bedrock Amazon Bedrock Developer Guide: Transitioning Between Models (<https://docs.aws.amazon.com/bedrock>)

NEW QUESTION # 137

A company has built an image classification model to predict plant diseases from photos of plant leaves. The company wants to evaluate how many images the model classified correctly.

Which evaluation metric should the company use to measure the model's performance?

- **A. Accuracy**
- B. R-squared score
- C. Root mean squared error (RMSE)
- D. Learning rate

Answer: A

Explanation:

Accuracy is the most appropriate metric to measure the performance of an image classification model. It indicates the percentage of correctly classified images out of the total number of images. In the context of classifying plant diseases from images, accuracy will help the company determine how well the model is performing by showing how many images were correctly classified.

* Option B (Correct): "Accuracy": This is the correct answer because accuracy measures the proportion of correct predictions made by the model, which is suitable for evaluating the performance of a classification model.

* Option A: "R-squared score" is incorrect as it is used for regression analysis, not classification tasks.

* Option C: "Root mean squared error (RMSE)" is incorrect because it is also used for regression tasks to measure prediction errors, not for classification accuracy.

* Option D: "Learning rate" is incorrect as it is a hyperparameter for training, not a performance metric.

AWS AI Practitioner References:

* Evaluating Machine Learning Models on AWS: AWS documentation emphasizes the use of appropriate metrics, like accuracy, for classification tasks.

NEW QUESTION # 138

A company is creating a model to label credit card transactions. The company has a large volume of sample transaction data to train the model. Most of the transaction data is unlabeled. The data does not contain confidential information. The company needs to obtain labeled sample data to fine-tune the model.

- A. Use an optical character recognition model trained on labeled samples to label unlabeled samples
- B. Run an Amazon SageMaker AI labeling job
- C. Run batch inference jobs on the unlabeled data
- **D. Use an Amazon SageMaker Ground Truth labeling job with Amazon Mechanical Turk workers**
- E. Run an Amazon SageMaker AI training job that uses the PyTorch Distributed library to label data

Answer: D

Explanation:

Comprehensive and Detailed

Amazon SageMaker Ground Truth lets you create data labeling jobs and can integrate with Amazon Mechanical Turk (a distributed human workforce) to label large unlabeled datasets.

A (batch inference) applies models to already-trained data, not labeling.

B (PyTorch Distributed) is for distributed training, not labeling.

D (OCR) applies only to text extraction from images, not transactions.

E is incorrect; Ground Truth is the service for labeling, not "AI labeling job." Reference:

AWS Documentation - SageMaker Ground Truth

NEW QUESTION # 139

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