

AIF-C01 Question Explanations | AIF-C01 Best Practice



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Amazon AIF-C01 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">• 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 2	<ul style="list-style-type: none">• 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.
Topic 3	<ul style="list-style-type: none">• 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 4	<ul style="list-style-type: none">• 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 5	<ul style="list-style-type: none">• 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.
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Amazon AWS Certified AI Practitioner Sample Questions (Q120-Q125):

NEW QUESTION # 120

A company is making a chatbot. The chatbot uses Amazon Lex and Amazon OpenSearch Service. The chatbot uses the company's private data to answer questions. The company needs to convert the data into a vector representation before storing the data in a database.

- A. Text embeddings model
- B. Text completion model
- C. Instruction following model
- D. Image generation model

Answer: A

NEW QUESTION # 121

A company has a generative AI application that uses a pre-trained foundation model (FM) on Amazon Bedrock. The company wants the FM to include more context by using company information. Which solution meets these requirements MOST cost-effectively?

- A. Deploy a custom model on Amazon Bedrock.
- B. Choose a different FM on Amazon Bedrock.
- C. Use Amazon Bedrock Knowledge Bases.
- D. Use Amazon Bedrock Agents.

Answer: C

Explanation:

Amazon Bedrock Knowledge Bases enable Retrieval Augmented Generation (RAG) by letting you connect external company data sources to your foundation model in a serverless, cost-effective manner-without retraining or fine-tuning. This allows the model to answer questions and generate content grounded in your own documents or data.

A is correct:

"Knowledge Bases for Amazon Bedrock enable generative AI applications to retrieve and include your company's information for more contextual responses, without the need for expensive retraining or custom models." (Reference: Amazon Bedrock Knowledge Bases) B is not cost-effective or guaranteed to add your company's context.

C (Agents) are for orchestrating workflows, not specifically RAG/context.

D (Custom model deployment) is costly and unnecessary for just adding context.

NEW QUESTION # 122

Which option is an example of unsupervised learning?

- A. A model that classifies images as dogs or cats

- B. A model that groups customers based on their purchase history
- C. A model that predicts a house's price based on various features
- D. A model that learns to play chess by using trial and error

Answer: B

Explanation:

Unsupervised learning involves training a model on unlabeled data, letting it find patterns or groupings on its own, without explicit outputs provided. Clustering is a primary unsupervised learning technique.

* Option A is correct: Grouping customers based on purchase history (without predefined categories) is clustering, a classic unsupervised task.

* B and C are supervised learning (classification and regression, respectively).

* D is reinforcement learning, not unsupervised learning.

"Unsupervised learning involves training on data without labels and is often used for clustering or dimensionality reduction."

(Reference: AWS Certified AI Practitioner Official Study Guide, AWS ML Concepts)

NEW QUESTION # 123

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:

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:

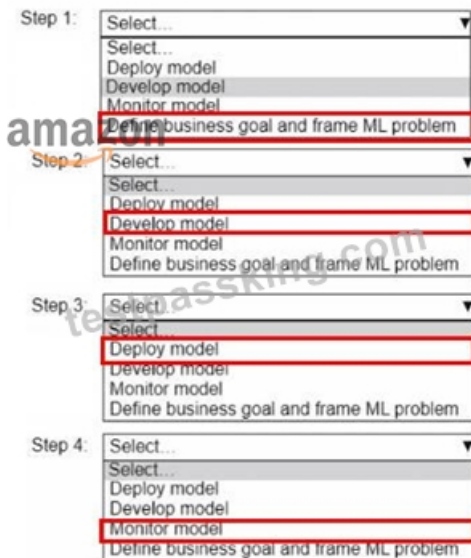
Select...
Select...
Deploy model
Develop model
Monitor model
Define business goal and frame ML problem

Step 4:

Select...
Select...
Deploy model
Develop model
Monitor model
Define business goal and frame ML problem

Answer:

Explanation:



Reference:

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 # 124

A company has multiple datasets that contain historical data. 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

Answer:

Explanation:

A dataset that contains text-based customer reviews

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

A dataset that contains daily sales volumes for products

Dataset 1: A dataset that contains text-based customer reviews # Natural language processing (NLP) NLP is designed for analyzing text (sentiment analysis, text classification, etc.).

Dataset 2: A dataset that contains images of animals labeled with their species names # Computer vision Computer vision models classify or detect objects in images.

Dataset 3: A dataset that contains daily sales volumes for products # Time series forecasting Time series forecasting predicts future values based on historical sequential data (like sales, demand, stock prices).

NEW QUESTION # 125

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