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Amazon AIF-C01 Exam Syllabus Topics:

Topic	Details
Topic 1	• 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 2	• 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 3	• 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 4	• 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 5	• 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.

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Amazon AWS Certified AI Practitioner Sample Questions (Q185-Q190):

NEW QUESTION # 185

A company is building a generative AI application and is reviewing foundation models (FMs). The company needs to consider multiple FM characteristics.

Select the correct FM characteristic from the following list for each definition. Each FM characteristic should be selected one time.

(Select THREE.)

- * Concurrency
- * Context windows
- * Latency

Amount of information that can fit in a single prompt

Select...

Select...

Concurrency

Context windows

Latency

Length of time it takes for a model to generate an output

Select...

Select...

Concurrency

Context windows

Latency

Multiple users invoking an application endpoint simultaneously

Select...

Select...

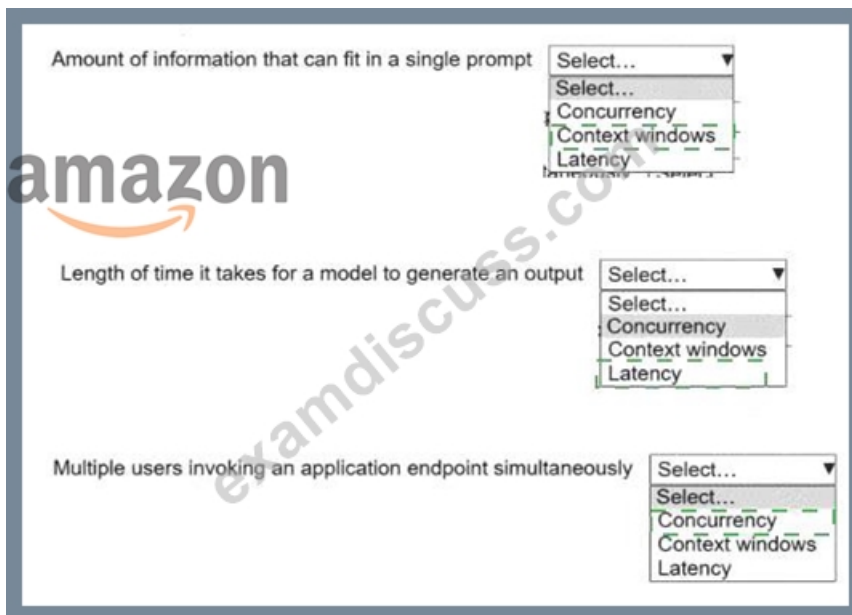
Concurrency

Context windows

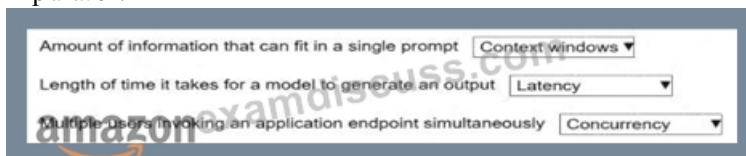
Latency

Answer:

Explanation:



Explanation:



AWS References:

- * Amazon Bedrock - Model parameters and context window
- * AWS ML Inference - Latency and Throughput
- * AWS Scalability - Concurrency

NEW QUESTION # 186

A company built a deep learning model for object detection and deployed the model to production. Which AI process occurs when the model analyzes a new image to identify objects?

- A. Training
- B. Bias correction
- C. Model deployment
- D. Inference

Answer: D

NEW QUESTION # 187

Which scenario represents a practical use case for generative AI?

- A. Implementing a rule-based recommendation engine to suggest products to customers
- B. Using an analytics dashboard to track website traffic and user behavior
- C. Employing a chatbot to provide human-like responses to customer queries in real time
- D. Using an ML model to forecast product demand

Answer: C

Explanation:

Generative AI is a type of AI that creates new content, such as text, images, or audio, often mimicking human-like outputs. A practical use case for generative AI is employing a chatbot to provide human-like responses to customer queries in real time, as it leverages the ability of large language models (LLMs) to generate natural language responses dynamically.

Exact Extract from AWS AI Documents:

From the AWS Bedrock User Guide:

"Generative AI enables applications like chatbots to produce human-like text responses in real time, enhancing customer support by providing natural and contextually relevant answers to user queries." (Source: AWS Bedrock User Guide, Introduction to

Generative AI) Detailed Option A: Using an ML model to forecast product demandForecasting product demand typically involves predictive analytics using supervised learning (e.g., regression models), not generative AI, which focuses on creating new content. Option B: Employing a chatbot to provide human-like responses to customer queries in real timeThis is the correct answer. Generative AI, particularly LLMs, is commonly used to power chatbots that generate human-like responses, making this a practical use case. Option C: Using an analytics dashboard to track website traffic and user behaviorAn analytics dashboard involves data visualization and analysis, not generative AI, which is about creating new content. Option D: Implementing a rule-based recommendation engine to suggest products to customersA rule-based recommendation engine relies on predefined rules, not generative AI. Generative AI could be used for more dynamic recommendations, but this scenario does not describe such a case. Reference: AWS Bedrock User Guide: Introduction to Generative AI (<https://docs.aws.amazon.com/bedrock/latest/userguide/what-is-bedrock.html>) AWS AI Practitioner Learning Path: Module on Generative AI Applications AWS Documentation: Generative AI Use Cases (<https://aws.amazon.com/generative-ai/>)

NEW QUESTION # 188

A company has petabytes of unlabeled customer data to use for an advertisement campaign. The company wants to classify its customers into tiers to advertise and promote the company's products. Which methodology should the company use to meet these requirements?

- A. Reinforcement learning
- **B. Unsupervised learning**
- C. Reinforcement learning from human feedback (RLHF)
- D. Supervised learning

Answer: B

Explanation:

Unsupervised learning is the correct methodology for classifying customers into tiers when the data is unlabeled, as it does not require predefined labels or outputs.

* Unsupervised Learning:

* This type of machine learning is used when the data has no labels or pre-defined categories. The goal is to identify patterns, clusters, or associations within the data.

* In this case, the company has petabytes of unlabeled customer data and needs to classify customers into different tiers.

Unsupervised learning techniques like clustering (e.g., K-Means, Hierarchical Clustering) can group similar customers based on various attributes without any prior knowledge or labels.

* Why Option B is Correct:

* Handling Unlabeled Data: Unsupervised learning is specifically designed to work with unlabeled data, making it ideal for the company's need to classify customer data.

* Customer Segmentation: Techniques in unsupervised learning can be used to find natural groupings within customer data, such as identifying high-value vs. low-value customers or segmenting based on purchasing behavior.

* Why Other Options are Incorrect:

* A. Supervised learning: Requires labeled data with input-output pairs to train the model, which is not suitable since the company's data is unlabeled.

* C. Reinforcement learning: Focuses on training an agent to make decisions by maximizing some notion of cumulative reward, which does not align with the company's need for customer classification.

* D. Reinforcement learning from human feedback (RLHF): Similar to reinforcement learning but involves human feedback to refine the model's behavior; it is also not appropriate for classifying unlabeled customer data.

NEW QUESTION # 189

A social media company wants to use a large language model (LLM) to summarize messages. The company has chosen a few LLMs that are available on Amazon SageMaker JumpStart. The company wants to compare the generated output toxicity of these models.

Which strategy gives the company the ability to evaluate the LLMs with the LEAST operational overhead?

- **A. Automatic model evaluation**
- B. Crowd-sourced evaluation
- C. Reinforcement learning from human feedback (RLHF)

- D. Model evaluation with human workers

Answer: A

Explanation:

The least operational overhead comes from automated tools that can scan and evaluate LLM outputs for toxicity. AWS and SageMaker JumpStart support integrations with automatic evaluation tools and APIs (such as Amazon Comprehend or third-party toxicity classifiers).

* B is correct: Automated evaluation provides quick, scalable, and repeatable analysis, requiring minimal human intervention.

* A and C require manual effort, increasing operational overhead.

* D (RLHF) is resource-intensive and not designed for rapid, automated model comparison.

"Automated evaluation can quickly assess generated text for specific attributes like toxicity, sentiment, or compliance using pre-trained classifiers, reducing human involvement and operational complexity." (Reference: AWS SageMaker JumpStart Evaluation, AWS AI Practitioner Guide)

NEW QUESTION # 190

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