

Updated Amazon AIF-C01 Exam Questions–Key to Your Career Growth



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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">• 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	<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 4	<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.
Topic 5	<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.

>> AIF-C01 Vce Format <<

Quiz AIF-C01 Vce Format - Realistic AWS Certified AI Practitioner Test Testking

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Amazon AWS Certified AI Practitioner Sample Questions (Q267-Q272):

NEW QUESTION # 267

What does an F1 score measure in the context of foundation model (FM) performance?

- A. Model speed in generating responses.
- B. Energy efficiency of the model's computations.
- C. Financial cost of operating the model.
- **D. Model precision and recall.**

Answer: D

Explanation:

The F1 score is the harmonic mean of precision and recall, making it a balanced metric for evaluating model performance when there is an imbalance between false positives and false negatives. Speed, cost, and energy efficiency are unrelated to the F1 score.

References: AWS Foundation Models Guide.

NEW QUESTION # 268

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. Run an Amazon SageMaker AI labeling job
- B. Use an optical character recognition model trained on labeled samples to label unlabeled samples
- 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 # 269

A company is comparing two foundation models (FMs) for a customer service AI assistant. The company wants to evaluate the FMs based on helpfulness, correctness, and tone. The company needs an evaluation technique that is automated, repeatable, and does not require human reviewers.

Which evaluation technique will meet these requirements?

- **A. LLM-as-a-judge**
- B. Retrieval Augmented Generation (RAG)
- C. Recall-Oriented Understudy for Gisting Evaluation (ROUGE)
- D. String matching

Answer: A

Explanation:

AWS documentation describes LLM-as-a-judge as an automated evaluation technique where a large language model is used to assess the outputs of another model based on qualitative criteria such as helpfulness, correctness, tone, and alignment with

expectations. This approach enables scalable and repeatable evaluations without requiring human reviewers.

In this scenario, the company needs to compare two foundation models across subjective dimensions that are difficult to measure using traditional metrics. LLM-as-a-judge allows the evaluator model to score or rank responses using predefined evaluation prompts and criteria, ensuring consistent and automated assessment.

The other options do not meet the requirements. String matching and ROUGE focus on lexical similarity and are unsuitable for evaluating tone or helpfulness in customer service interactions. Retrieval Augmented Generation is an architectural pattern, not an evaluation technique.

AWS highlights LLM-as-a-judge as a practical approach for automated qualitative evaluation of generative AI outputs, making it the correct choice.

NEW QUESTION # 270

An AI practitioner is using a large language model (LLM) to create content for marketing campaigns. The generated content sounds plausible and factual but is incorrect.

Which problem is the LLM having?

- A. Hallucination
- B. Overfitting
- C. Underfitting
- D. Data leakage

Answer: A

NEW QUESTION # 271

An ecommerce company is using a chatbot to automate the customer order submission process. The chatbot is powered by AI and is available to customers directly from the company's website 24 hours a day, 7 days a week.

Which option is an AI system input vulnerability that the company needs to resolve before the chatbot is made available?

- A. Large language model (LLM) hallucinations
- B. Prompt injection
- C. Concept drift
- D. Data leakage

Answer: D

Explanation:

The ecommerce company's chatbot, powered by AI, automates customer order submissions and is accessible 24/7 via the website. Prompt injection is an AI system input vulnerability where malicious users craft inputs to manipulate the chatbot's behavior, such as bypassing safeguards or accessing unauthorized information.

This vulnerability must be resolved before the chatbot is made available to ensure security.

Exact Extract from AWS AI Documents:

From the AWS Bedrock User Guide:

"Prompt injection is a vulnerability in AI systems, particularly chatbots, where malicious inputs can manipulate the model's behavior, potentially leading to unauthorized actions or harmful outputs.

Implementing guardrails and input validation can mitigate this risk."

(Source: AWS Bedrock User Guide, Security Best Practices)

Detailed Explanation:

Option A: Data leakage Data leakage refers to the unintended exposure of sensitive data during model training or inference, not an input vulnerability affecting a chatbot's operation.

Option B: Prompt injection This is the correct answer. Prompt injection is a critical input vulnerability for chatbots, where malicious prompts can exploit the AI to produce harmful or unauthorized responses, a risk that must be addressed before launch.

Option C: Large language model (LLM) hallucinations LLM hallucinations refer to the model generating incorrect or ungrounded responses, which is an output issue, not an input vulnerability.

Option D: Concept drift Concept drift occurs when the data distribution changes over time, affecting model performance. It is not an input vulnerability but a long-term performance issue.

References:

AWS Bedrock User Guide: Security Best Practices (<https://docs.aws.amazon.com/bedrock/latest/userguide/security.html>)

AWS AI Practitioner Learning Path: Module on AI Security and Vulnerabilities AWS Documentation: Securing AI Systems (<https://aws.amazon.com/security/>)

NEW QUESTION # 272

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