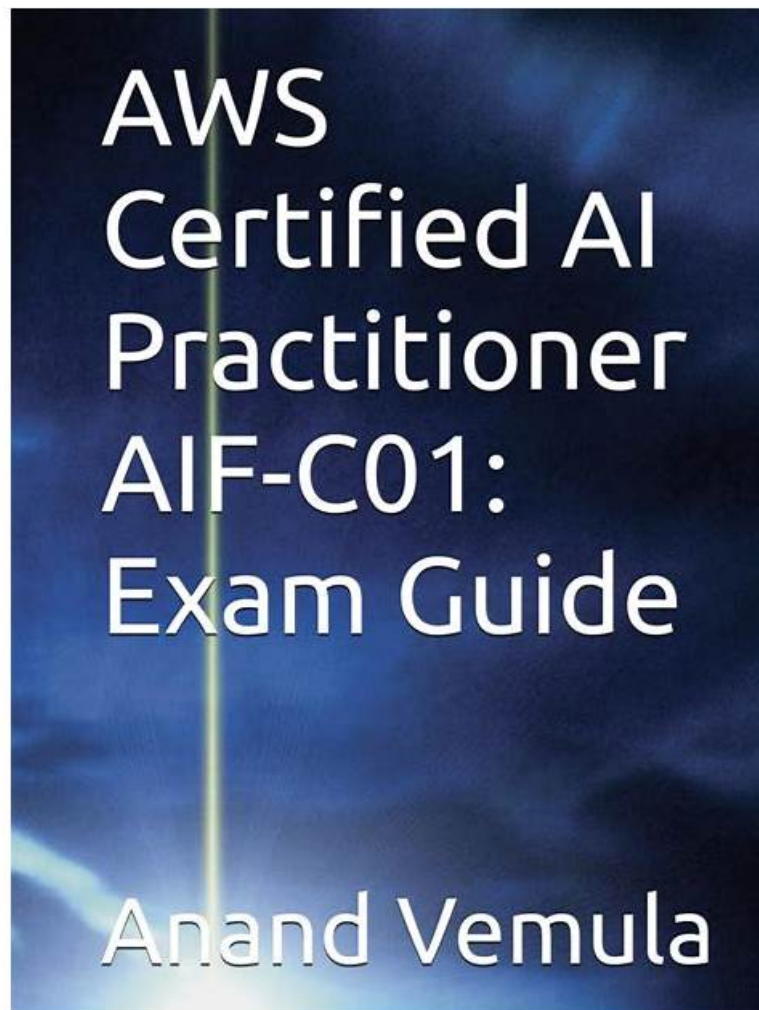


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Amazon AIF-C01 Exam Syllabus Topics:

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"> • 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.

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Amazon AWS Certified AI Practitioner Sample Questions (Q83-Q88):

NEW QUESTION # 83

A customer service team is developing an application to analyze customer feedback and automatically classify the feedback into different categories. The categories include product quality, customer service, and delivery experience.

Which AI concept does this scenario present?

- A. Computer vision
- B. Fraud detection
- C. Natural language processing (NLP)
- D. Recommendation systems

Answer: C

Explanation:

The scenario involves analyzing customer feedback and automatically classifying it into categories such as product quality, customer service, and delivery experience. This task requires processing and understanding textual data, which is a core application of natural language processing (NLP). NLP encompasses techniques for analyzing, interpreting, and generating human language, including tasks like text classification, sentiment analysis, and topic modeling, all of which are relevant to this use case.

Exact Extract from AWS AI Documents:

From the AWS AI Practitioner Learning Path:

"Natural Language Processing (NLP) enables machines to understand and process human language. Common NLP tasks include text classification, sentiment analysis, named entity recognition, and topic modeling. Services like Amazon Comprehend can be used to classify text into predefined categories based on content." (Source: AWS AI Practitioner Learning Path, Module on AI and ML Concepts) Detailed Option A: Computer vision Computer vision involves processing and analyzing visual data, such as images or videos. Since the scenario deals with textual customer feedback, computer vision is not applicable.

Option B: Natural language processing (NLP) This is the correct answer. The task of classifying customer feedback into categories requires understanding and processing text, which is an NLP task. AWS services like Amazon Comprehend are specifically designed for such text classification tasks.

Option C: Recommendation systems Recommendation systems suggest items or content based on user preferences or behavior. The scenario does not involve recommending products or services but rather classifying feedback, so this option is incorrect.

Option D: Fraud detection Fraud detection involves identifying anomalous or fraudulent activities, typically in financial or transactional data. The scenario focuses on text classification, not anomaly detection, making this option irrelevant.

Reference:

AWS AI Practitioner Learning Path: Module on AI and ML Concepts

Amazon Comprehend Developer Guide: Text Classification (<https://docs.aws.amazon.com/comprehend/latest/dg/how-classification.html>) AWS Documentation: Introduction to NLP (<https://aws.amazon.com/what-is/natural-language-processing/>)

NEW QUESTION # 84

A financial institution is building an AI solution to make loan approval decisions by using a foundation model (FM). For security and audit purposes, the company needs the AI solution's decisions to be explainable.

Which factor relates to the explainability of the AI solution's decisions?

- A. Training time
- B. Deployment time
- C. Number of hyperparameters
- **D. Model complexity**

Answer: D

Explanation:

The financial institution needs an AI solution for loan approval decisions to be explainable for security and audit purposes.

Explainability refers to the ability to understand and interpret how a model makes decisions.

Model complexity directly impacts explainability: simpler models (e.g., logistic regression) are more interpretable, while complex models (e.g., deep neural networks) are harder to explain, often behaving like "black boxes."

Exact Extract from AWS AI Documents:

From the Amazon SageMaker Developer Guide:

"Model complexity affects the explainability of AI solutions. Simpler models, such as linear regression, are inherently more interpretable, while complex models, such as deep neural networks, may require additional tools like SageMaker Clarify to provide insights into their decision-making processes." (Source: Amazon SageMaker Developer Guide, Explainability with SageMaker Clarify) Detailed Explanation:

Option A: Model complexity This is the correct answer. The complexity of the model directly influences how easily its decisions can be explained, a critical factor for audit and security purposes in loan approvals.

Option B: Training time Training time refers to how long it takes to train the model, which does not directly impact the explainability of its decisions.

Option C: Number of hyperparameters While hyperparameters affect model performance, they do not directly relate to explainability. A model with many hyperparameters might still be explainable if it is a simple model.

Option D: Deployment time Deployment time refers to the time taken to deploy the model to production, which is unrelated to the explainability of its decisions.

References:

Amazon SageMaker Developer Guide: Explainability with SageMaker Clarify (<https://docs.aws.amazon.com/sagemaker/latest/dg/clarify-explainability.html>)

AWS AI Practitioner Learning Path: Module on Responsible AI and Explainability AWS Documentation: Explainable AI (<https://aws.amazon.com/machine-learning/responsible-ai/>)

NEW QUESTION # 85

A company has installed a security camera

a. The company uses an ML model to evaluate the security camera footage for potential thefts. The company has discovered that the model disproportionately flags people who are members of a specific ethnic group.

Which type of bias is affecting the model output?

- A. Observer bias
- B. Measurement bias
- C. Confirmation bias
- **D. Sampling bias**

Answer: D

Explanation:

Sampling bias is the correct type of bias affecting the model output when it disproportionately flags people from a specific ethnic group.

Sampling Bias:

Occurs when the training data is not representative of the broader population, leading to skewed model outputs.

In this case, if the model disproportionately flags people from a specific ethnic group, it likely indicates that the training data was not adequately balanced or representative.

Why Option B is Correct:

Reflects Data Imbalance: A biased sample in the training data could result in unfair outcomes, such as disproportionately flagging a particular group.

Common Issue in ML Models: Sampling bias is a known problem that can lead to unfair or inaccurate model predictions.

Why Other Options are Incorrect:

A . Measurement bias: Involves errors in data collection or measurement, not sampling.

C . Observer bias: Refers to bias introduced by researchers or data collectors, not the model's output.

D . Confirmation bias: Involves favoring information that confirms existing beliefs, not relevant to model output bias.

NEW QUESTION # 86

Which technique breaks a complex task into smaller subtasks that are sent sequentially to a large language model (LLM)?

- A. Retrieval Augmented Generation (RAG)
- B. One-shot prompting
- C. Tree of thoughts
- **D. Prompt chaining**

Answer: D

Explanation:

Prompt chaining is a technique where a complex task is broken into smaller subtasks, and the outputs of one subtask are used as inputs for the next, sequentially guiding a large language model (LLM) to solve the problem step-by-step. This method is particularly useful for complex tasks that require multiple reasoning steps.

Exact Extract from AWS AI Documents:

From the AWS Bedrock User Guide:

"Prompt chaining involves breaking a complex task into smaller subtasks and sequentially passing the output of one subtask as input to the next, enabling large language models to handle intricate problems by solving them step-by-step." (Source: AWS Bedrock User Guide, Prompt Engineering Techniques) Detailed Option A: One-shot promptingOne-shot prompting provides a single example to guide the LLM, but it does not break tasks into smaller subtasks or handle sequential processing.

Option B: Prompt chainingThis is the correct answer. Prompt chaining divides a complex task into smaller, manageable subtasks, solving them sequentially with the LLM, as described.

Option C: Tree of thoughtsTree of thoughts involves exploring multiple reasoning paths simultaneously, not breaking tasks into sequential subtasks.

Option D: Retrieval Augmented Generation (RAG)RAG retrieves external information to augment LLM responses but does not specifically break tasks into sequential subtasks.

Reference:

AWS Bedrock User Guide: Prompt Engineering Techniques (<https://docs.aws.amazon.com/bedrock/latest/userguide/prompt-engineering.html>) AWS AI Practitioner Learning Path: Module on Generative AI Prompting Amazon Bedrock Developer Guide: Advanced Prompting Strategies (<https://aws.amazon.com/bedrock/>)

NEW QUESTION # 87

A company's large language model (LLM) is experiencing hallucinations.

How can the company decrease hallucinations?

- A. Use data pre-processing and remove any data that causes hallucinations.
- B. Use a foundation model (FM) that is trained to not hallucinate.
- **C. Decrease the temperature inference parameter for the model.**
- D. Set up Agents for Amazon Bedrock to supervise the model training.

Answer: C

Explanation:

Hallucinations in large language models (LLMs) occur when the model generates outputs that are factually incorrect, irrelevant, or

not grounded in the input data. To mitigate hallucinations, adjusting the model's inference parameters, particularly the temperature, is a well-documented approach in AWS AI Practitioner resources. The temperature parameter controls the randomness of the model's output. A lower temperature makes the model more deterministic, reducing the likelihood of generating creative but incorrect responses, which are often the cause of hallucinations.

Exact Extract from AWS AI Documents:

From the AWS documentation on Amazon Bedrock and LLMs:

"The temperature parameter controls the randomness of the generated text. Higher values (e.g., 0.8 or above) increase creativity but may lead to less coherent or factually incorrect outputs, while lower values (e.g., 0.2 or

0.3) make the output more focused and deterministic, reducing the likelihood of hallucinations." (Source: AWS Bedrock User Guide, Inference Parameters for Text Generation) Detailed Explanation:

Option A: Set up Agents for Amazon Bedrock to supervise the model training. Agents for Amazon Bedrock are used to automate tasks and integrate LLMs with external tools, not to supervise model training or directly address hallucinations. This option is incorrect as it does not align with the purpose of Agents in Bedrock.

Option B: Use data pre-processing and remove any data that causes hallucinations. While data pre-processing can improve model performance, identifying and removing specific data that causes hallucinations is impractical because hallucinations are often a result of the model's generative process rather than specific problematic data points. This approach is not directly supported by AWS documentation for addressing hallucinations.

Option C: Decrease the temperature inference parameter for the model. This is the correct approach. Lowering the temperature reduces the randomness in the model's output, making it more likely to stick to factual and contextually relevant responses. AWS documentation explicitly mentions adjusting inference parameters like temperature to control output quality and mitigate issues like hallucinations.

Option D: Use a foundation model (FM) that is trained to not hallucinate. No foundation model is explicitly trained to "not hallucinate," as hallucinations are an inherent challenge in LLMs. While some models may be fine-tuned for specific tasks to reduce hallucinations, this is not a standard feature of foundation models available on Amazon Bedrock.

References:

AWS Bedrock User Guide: Inference Parameters for Text Generation (<https://docs.aws.amazon.com/bedrock/latest/userguide/model-parameters.html>)

AWS AI Practitioner Learning Path: Module on Large Language Models and Inference Configuration Amazon Bedrock Developer Guide: Managing Model Outputs (<https://docs.aws.amazon.com/bedrock/latest/devguide/>)

NEW QUESTION # 88

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