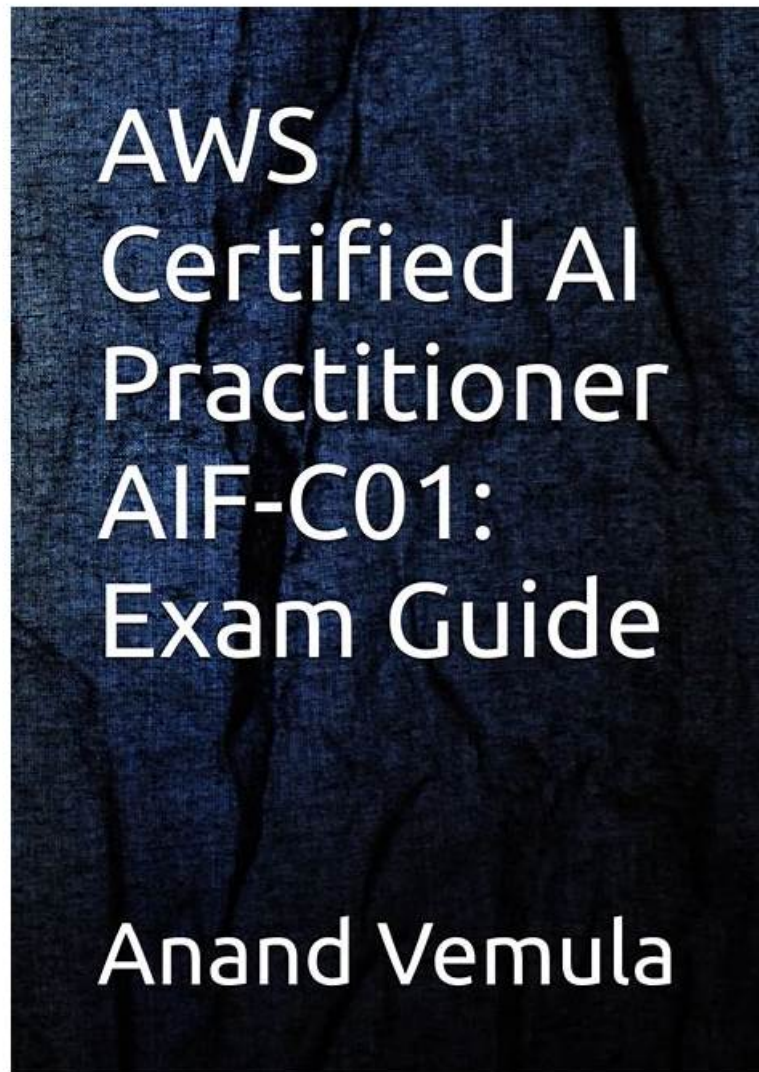


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Amazon AIF-C01 Exam Syllabus Topics:

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	• 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	• 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	• 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	• 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 (Q59-Q64):

NEW QUESTION # 59

A company wants to label training datasets by using human feedback to fine-tune a foundation model (FM). The company does not want to develop labeling applications or manage a labeling workforce. Which AWS service or feature meets these requirements?

- A. Amazon Macie
- B. Amazon SageMaker Data Wrangler
- C. Amazon Transcribe
- D. Amazon SageMaker Ground Truth Plus

Answer: D

Explanation:

Amazon SageMaker Ground Truth Plus provides a fully managed data labeling service where AWS manages the workforce, tools, and processes.

Data Wrangler is for data preparation and transformation.

Transcribe is for speech-to-text.

Macie is for sensitive data discovery, not labeling.

Reference:

AWS Documentation - SageMaker Ground Truth Plus

NEW QUESTION # 60

A company is building an ML model. The company collected new data and analyzed the data by creating a correlation matrix,

calculating statistics, and visualizing the data.

Which stage of the ML pipeline is the company currently in?

- **A. Exploratory data analysis**
- B. Feature engineering
- C. Hyperparameter tuning
- D. Data pre-processing

Answer: A

NEW QUESTION # 61

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. Number of hyperparameters
- B. Deployment time
- C. Training time
- **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 # 62

A company wants to use large language models (LLMs) with Amazon Bedrock to develop a chat interface for the company's product manuals. The manuals are stored as PDF files.

Which solution meets these requirements MOST cost-effectively?

- A. Use all the PDF documents to fine-tune a model with Amazon Bedrock. Use the fine-tuned model to process user prompts.
- B. Use prompt engineering to add all the PDF files as context to the user prompt when the prompt is submitted to Amazon Bedrock.
- C. Use prompt engineering to add one PDF file as context to the user prompt when the prompt is submitted to Amazon Bedrock.

- D. Upload PDF documents to an Amazon Bedrock knowledge base. Use the knowledge base to provide context when users submit prompts to Amazon Bedrock.

Answer: D

NEW QUESTION # 63

A company wants to assess internet quality in remote areas of the world. The company needs to collect internet speed data and store the data in Amazon RDS. The company will analyze internet speed variation throughout each day. The company wants to create an AI model to predict potential internet disruptions.

Which type of data should the company collect for this task?

- A. Text data
- B. Time series data
- C. Audio data
- D. Tabular data

Answer: B

NEW QUESTION # 64

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