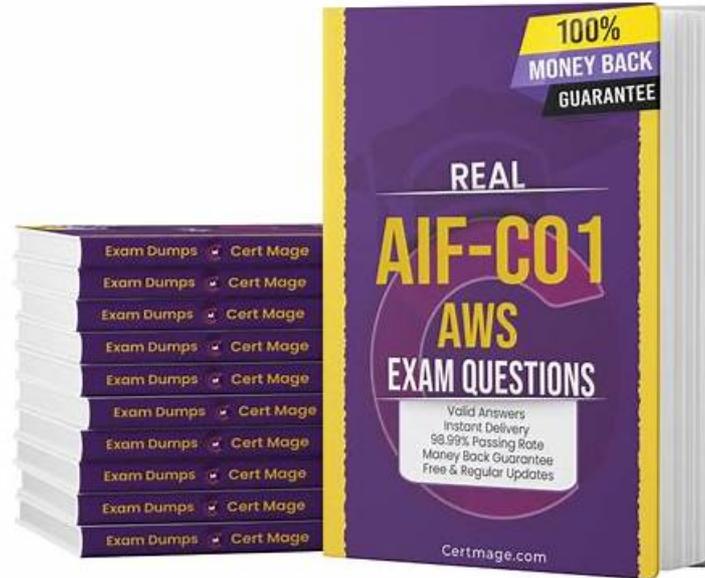


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Amazon AIF-C01 Exam Syllabus Topics:

Topic	Details

Topic 1	<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 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"> • 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	<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"> • 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.

Amazon AWS Certified AI Practitioner Sample Questions (Q161-Q166):

NEW QUESTION # 161

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

Answer: A

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 Explanation:

* 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.

References:

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 # 162

An AI practitioner who has minimal ML knowledge wants to predict employee attrition without writing code.

Which Amazon SageMaker feature meets this requirement?

- A. SageMaker Model Monitor
- B. SageMaker Clarify
- C. SageMaker Data Wrangler
- **D. SageMaker Canvas**

Answer: D

Explanation:

The correct answer is A because Amazon SageMaker Canvas is designed specifically for users with little or no machine learning or programming experience. It provides a visual interface to build ML models by simply uploading data, performing analysis, and generating predictions using a no-code environment.

From the AWS documentation:

"Amazon SageMaker Canvas enables business analysts and other users to generate accurate ML predictions using a visual, point-and-click interface without writing code or having prior ML experience." This feature allows the user to:

- * Import datasets (e.g., HR data)
- * Automatically explore the data
- * Select the prediction column (e.g., attrition)
- * Train the model
- * Generate and export predictions

Explanation of other options:

B). SageMaker Clarify is used to detect bias and explain ML predictions but not to build models or make predictions without code.

C). SageMaker Model Monitor monitors model quality in production but doesn't build or train models.

D). SageMaker Data Wrangler is used for data preprocessing and transformation but still requires some technical configuration.

Referenced AWS AI/ML Documents and Study Guides:

- * Amazon SageMaker Canvas Developer Guide
- * AWS Certified Machine Learning Specialty Study Guide - AutoML and No-Code Tools Section
- * AWS Machine Learning Blog: "Predict Employee Attrition with SageMaker Canvas"

NEW QUESTION # 163

A company wants to build a lead prioritization application for its employees to contact potential customers. The application must give employees the ability to view and adjust the weights assigned to different variables in the model based on domain knowledge and expertise.

Which ML model type meets these requirements?

- A. K-nearest neighbors (k-NN) model
- B. Neural network
- C. Logistic regression model
- **D. Deep learning model built on principal components**

Answer: D

NEW QUESTION # 164

A company wants to build a lead prioritization application for its employees to contact potential customers.

The application must give employees the ability to view and adjust the weights assigned to different variables in the model based on domain knowledge and expertise.

Which ML model type meets these requirements?

- A. K-nearest neighbors (k-NN) model

- B. Neural network
- **C. Logistic regression model**
- D. Deep learning model built on principal components

Answer: C

Explanation:

The company needs an ML model for a lead prioritization application where employees can view and adjust the weights assigned to different variables based on domain knowledge. Logistic regression is a linear model that assigns interpretable weights to input features, making it easy for users to understand and modify these weights. This interpretability and adjustability make it suitable for the requirements.

Exact Extract from AWS AI Documents:

From the AWS AI Practitioner Learning Path:

"Logistic regression is a supervised learning algorithm used for classification tasks. It is highly interpretable, as it assigns weights to each feature, allowing users to understand and adjust the importance of different variables based on domain expertise." (Source: AWS AI Practitioner Learning Path, Module on Machine Learning Algorithms) Detailed Explanation:

- * Option A: Logistic regression model This is the correct answer. Logistic regression provides interpretable coefficients (weights) for each feature, enabling employees to view and adjust them based on domain knowledge, meeting the application's requirements.
- * Option B: Deep learning model built on principal components Deep learning models, even when using principal components, are complex and lack interpretability. The weights in such models are not easily adjustable by users, making this option unsuitable.
- * Option C: K-nearest neighbors (k-NN) model k-NN is a non-parametric model that does not assign explicit weights to features. It relies on distance metrics, which are not easily adjustable based on domain knowledge, so it does not meet the requirements.
- * Option D: Neural network Neural networks are highly complex and lack interpretability, as their weights are not directly tied to input features in a human-understandable way. Adjusting weights based on domain knowledge is impractical, making this option incorrect.

References:

AWS AI Practitioner Learning Path: Module on Machine Learning Algorithms Amazon SageMaker Developer Guide: Logistic Regression (<https://docs.aws.amazon.com/sagemaker/latest/dg/algos.html>)

AWS Documentation: Interpretable Machine Learning Models (<https://aws.amazon.com/machine-learning/>)

NEW QUESTION # 165

A company is using a pre-trained large language model (LLM). The LLM must perform multiple tasks that require specific domain knowledge. The LLM does not have information about several technical topics in the domain. The company has unlabeled data that the company can use to fine-tune the model.

Which fine-tuning method will meet these requirements?

- **A. Continued pre-training**
- B. Supervised fine-tuning
- C. Retrieval Augmented Generation (RAG)
- D. Full training

Answer: A

Explanation:

The correct answer is C because Continued Pre-training (also known as domain-adaptive pre-training) involves training a pre-trained model further on unlabeled domain-specific data. This method helps adapt the LLM to a specific domain without needing labeled datasets, making it ideal for cases where the goal is to enhance the model's understanding of technical language or terminology.

From AWS documentation:

"Continued pre-training allows an LLM to ingest large volumes of domain-specific text without labels to improve contextual understanding in a particular area. This is effective when adapting a foundation model to new knowledge without altering the model architecture." Explanation of other options:

A). Full training refers to building a model from scratch, which is extremely resource-intensive and unnecessary if a strong base model already exists.

B). Supervised fine-tuning requires labeled data, which the scenario explicitly lacks.

D). RAG is a method to retrieve external information at inference time, not a training technique using unlabeled data.

Referenced AWS AI/ML Documents and Study Guides:

* AWS Bedrock Model Customization Documentation - Continued Pre-training

* Amazon SageMaker JumpStart - Domain Adaptation Techniques

NEW QUESTION # 166

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