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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">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 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 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 (Q209-Q214):

NEW QUESTION # 209

A company is building a contact center application and wants to gain insights from customer conversations. The company wants to analyze and extract key information from the audio of the customer calls. Which solution meets these requirements?

- A. Create classification labels by using Amazon Comprehend.
- B. **Transcribe call recordings by using Amazon Transcribe.**
- C. Build a conversational chatbot by using Amazon Lex.
- D. Extract information from call recordings by using Amazon SageMaker Model Monitor.

Answer: B

Explanation:

Amazon Transcribe is the correct solution for converting audio from customer calls into text, allowing the company to analyze and extract key information from the conversations.

Amazon Transcribe:

It is a fully managed automatic speech recognition (ASR) service that converts speech into text, making it easier to perform text-based analysis on audio data.

After transcribing the audio, further analysis can be performed using other AWS services like Amazon Comprehend to extract insights such as sentiment, key phrases, or entities.

Why Option B is Correct:

Conversion to Text: Transcribing audio recordings is the first step in gaining insights from spoken conversations, allowing for further processing.

Enables Further Analysis: Once the audio is transcribed into text, other tools and services can be used to analyze the content more deeply.

Why Other Options are Incorrect:

A . Amazon Lex: Is used for building conversational interfaces, not for transcribing or analyzing audio from customer calls.

C . Amazon SageMaker Model Monitor: Monitors ML models for bias and data drift, not for audio analysis.

D . Amazon Comprehend: Can analyze text but cannot transcribe audio; it would be used after transcription is completed.

NEW QUESTION # 210

A company wants to improve multiple ML models.

Select the correct technique from the following list of use cases. Each technique should be selected one time or not at all. (Select THREE.) Few-shot learning Fine-tuning Retrieval Augmented Generation (RAG) Zero-shot learning

Answer:

Explanation:

AWS References:

Amazon Bedrock - Retrieval Augmented Generation (RAG)

AWS Generative AI Guide - Zero-shot & Few-shot learning

NEW QUESTION # 211

A company has documents that are missing some words because of a database error. The company wants to build an ML model that can suggest potential words to fill in the missing text.

Which type of model meets this requirement?

- A. Topic modeling
- B. **BERT-based models**
- C. Prescriptive ML models
- D. Clustering models

Answer: B

NEW QUESTION # 212

A company has thousands of customer support interactions per day and wants to analyze these interactions to identify frequently asked questions and develop insights.

Which AWS service can the company use to meet this requirement?

- A. Amazon Lex
- **B. Amazon Comprehend**
- C. Amazon Translate
- D. Amazon Transcribe

Answer: B

NEW QUESTION # 213

An AI practitioner must fine-tune an open source large language model (LLM) for text categorization. The dataset is already prepared.

Which solution will meet these requirements with the LEAST operational effort?

- A. Create a Jupyter notebook on an Amazon EC2 instance. Use the notebook to train the model.
- B. Use a custom script to run an Amazon SageMaker AI model training job.
- C. Create a custom model training job in PartyRock on Amazon Bedrock.
- **D. Use Amazon SageMaker JumpStart to create a training job.**

Answer: D

Explanation:

The correct answer is B because Amazon SageMaker JumpStart provides pre-built solutions, including training workflows for popular open-source LLMs such as Falcon, LLaMA, and others. It allows practitioners to quickly launch fine-tuning jobs using predefined templates, minimizing operational setup and code complexity.

From AWS documentation:

"Amazon SageMaker JumpStart enables you to fine-tune and deploy foundation models with minimal setup.

It provides easy-to-use interfaces and pre-built configurations for training, which significantly reduces the operational overhead required to train models."

Explanation of other options:

- A). PartyRock is designed for prototyping generative AI apps but does not support model training or fine-tuning.
- C). Writing a custom script for SageMaker training is flexible but involves more operational effort, including handling infrastructure configuration.
- D). Training on EC2 via a Jupyter notebook is fully manual and operationally intensive, including dependency setup, data handling, and resource scaling.

Referenced AWS AI/ML Documents and Study Guides:

Amazon SageMaker JumpStart Developer Guide - Fine-tuning Foundation Models AWS Certified Machine Learning Specialty Guide - Model Customization and JumpStart

NEW QUESTION # 214

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