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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	• 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	• 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 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 (Q336-Q341):

NEW QUESTION # 336
A company wants more customized responses to its generative AI models' prompts.
Select the correct customization methodology from the following list for each use case. Each use case should be selected one time. (Select THREE.)
* Continued pre-training
* Data augmentation
* Model fine-tuning

Answer:

Explanation:

NEW QUESTION # 337
A company is working on a large language model (LLM) and noticed that the LLM's outputs are not as diverse as expected. Which parameter should the company adjust?

- A. Batch size
- B. Optimizer type
- C. Learning rate
- D. Temperature

Answer: D

Explanation:
The correct answer is A because temperature controls the randomness of a language model's output. A higher temperature increases diversity by making the model more likely to explore less probable tokens, while a lower temperature results in more deterministic and repetitive outputs.
From AWS documentation:
"The temperature parameter in LLMs adjusts the randomness of generated responses. Higher values (e.g., 0.8-1.0) produce more creative and diverse output, while lower values (e.g., 0.1-0.3) make output more focused and repetitive."
Explanation of other options:
B). Batch size is related to training efficiency, not output diversity.
C). Learning rate affects the training convergence rate, not inference-time output variety.
D). Optimizer type is a training configuration that influences how the model learns during training, not diversity during inference.
Referenced AWS AI/ML Documents and Study Guides:
* Amazon Bedrock - Parameter Tuning Guide
* AWS Machine Learning Specialty Guide - LLM Inference Parameters

NEW QUESTION # 338
A company wants to set up private access to Amazon Bedrock APIs from the company's AWS account. The company also wants to protect its data from internet exposure.

- A. Use AWS PrivateLink to configure a private connection between the company's VPC and Amazon Bedrock
- B. Use AWS Lake Formation to manage centralized data governance and cross-account data sharing
- C. Use AWS Glue to set up data encryption across the company's data catalog
- D. Use Amazon CloudFront to restrict access to the company's private content

Answer: A

Explanation:
AWS PrivateLink enables private connectivity between your VPC and supported AWS services (like Amazon Bedrock) without sending traffic over the public internet.
CloudFront (A) is for CDN and content delivery, not private service connections.
AWS Glue (B) is for ETL/data catalog, not networking.
Lake Formation (C) provides governance for data lakes, not API network isolation.
Reference:
AWS Documentation - Access Amazon Bedrock with PrivateLink

NEW QUESTION # 339
Which option describes embeddings in the context of AI?

- A. A method for compressing large datasets
- B. A numerical method for data representation in a reduced dimensionality space
- C. A method for visualizing high-dimensional data
- D. An encryption method for securing sensitive data

Answer: B

Explanation:
Embeddings in AI refer to numerical representations of data (e.g., text, images) in a lower-dimensional space, capturing semantic or contextual relationships. They are widely used in NLP and other AI tasks to represent complex data in a format that models can process efficiently.
Exact Extract from AWS AI Documents:
From the AWS AI Practitioner Learning Path:
"Embeddings are numerical representations of data in a reduced dimensionality space. In natural language processing, for example, word or sentence embeddings capture semantic relationships, enabling models to process text efficiently for tasks like classification or similarity search." (Source: AWS AI Practitioner Learning Path, Module on AI Concepts) Detailed Explanation:
* Option A: A method for compressing large datasetsWhile embeddings reduce dimensionality, their primary purpose is not data compression but rather to represent data in a way that preserves meaningful relationships. This option is incorrect.
* Option B: An encryption method for securing sensitive dataEmbeddings are not related to encryption or data security. They are used for data representation, making this option incorrect.
* Option C: A method for visualizing high-dimensional dataWhile embeddings can sometimes be used in visualization (e.g., t-SNE), their primary role is data representation for model processing, not visualization. This option is misleading.
* Option D: A numerical method for data representation in a reduced dimensionality spaceThis is the correct answer. Embeddings transform complex data into lower-dimensional numerical vectors, preserving semantic or contextual information for use in AI models.
References:
AWS AI Practitioner Learning Path: Module on AI Concepts
Amazon Comprehend Developer Guide: Embeddings for Text Analysis (https://docs.aws.amazon.com/comprehend/latest/dg/embeddings.html)
AWS Documentation: What are Embeddings? (https://aws.amazon.com/what-is/embeddings/)

NEW QUESTION # 340
A company wants to extract key insights from large policy documents to increase employee efficiency.

- A. Regression
- B. Classification
- C. Clustering
- D. Summarization

Answer: D

Explanation:
* Summarization is a natural language processing (NLP) task that condenses long documents into concise, meaningful summaries while retaining the key information.
* Regression predicts numerical values.

* Clustering groups similar items.
* Classification assigns data into predefined categories.
# Reference:
AWS NLP Use Cases - Summarization

NEW QUESTION # 341
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