

AIF-C01 Test Answers | Study Materials AIF-C01 Review



School of Tech
Auckland Campus

Course Title/Code: Engineering Mathematics 1 - DE4102	Assessment: Quiz 1										
Semester:	Assessment Date:										
Student Name and ID: _____	Score: _____										
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Amazon AIF-C01 Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<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 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"> • 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.

>> AIF-C01 Test Answers <<

Pass Guaranteed Quiz 2026 Reliable Amazon AIF-C01: AWS Certified AI Practitioner Test Answers

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Amazon AWS Certified AI Practitioner Sample Questions (Q361-Q366):

NEW QUESTION # 361

A company is using a large collection of web data to produce a large language model (LLM). The company completes a random initialization of the model's weights. Next, the company fits the model to the data through a language-modeling objective function. Which stage of the model training process does this scenario describe?

- A. Pre-training
- B. Fine-tuning
- C. Deployment
- D. Model selection

Answer: A

Explanation:

The verified answer is B. Pre-training . The scenario describes the first major training stage for a large language model, where the model starts with randomly initialized weights and learns broad language patterns from a very large corpus of unlabeled or self-supervised text data. AWS describes large language models as very large deep learning models that are pre-trained on vast amounts of data . In this stage, the model is not yet being customized for a narrow business task; instead, it learns general-purpose linguistic and semantic representations from large-scale text.

AWS machine learning guidance explains that pre-training teaches the model broad linguistic and semantic patterns , including grammar, context, world knowledge, reasoning, and token prediction, using self-supervised learning approaches such as masked language modeling or causal language modeling. That exactly matches the question's description: random weight initialization followed by fitting the model to a large web dataset using a language-modeling objective. This is the core training process used to create a foundation model or LLM before later adaptation.

Option A. Fine-tuning is incorrect because AWS defines fine-tuning as training a pretrained model on a new dataset rather than training from scratch. Fine-tuning adapts an existing model for a specific task or domain and usually requires less data and less training time than pre-training.

Option C. Model selection is incorrect because model selection refers to choosing an appropriate model or architecture, not training the model weights from random initialization. Option D. Deployment is also incorrect because AWS describes deployment as the stage where a trained model is made available for inference or predictions, such as through SageMaker inference endpoints.

Therefore, because the company is training an LLM from initial weights on a large web corpus using a language-modeling objective,

the stage is pre-training .

NEW QUESTION # 362

A retail store wants to predict the demand for a specific product for the next few weeks by using the Amazon SageMaker DeepAR forecasting algorithm.

Which type of data will meet this requirement?

- **A. Time series data**
- B. Image data
- C. Text data
- D. Binary data

Answer: A

Explanation:

Amazon SageMaker's DeepAR is a supervised learning algorithm designed for forecasting scalar (one-dimensional) time series data. Time series data consists of sequences of data points indexed in time order, typically with consistent intervals between them. In the context of a retail store aiming to predict product demand, relevant time series data might include historical sales figures, inventory levels, or related metrics recorded over regular time intervals (e.g., daily or weekly). By training the DeepAR model on this historical time series data, the store can generate forecasts for future product demand. This capability is particularly useful for inventory management, staffing, and supply chain optimization. Other data types, such as text, image, or binary data, are not suitable for time series forecasting tasks and would not be appropriate inputs for the DeepAR algorithm.

NEW QUESTION # 363

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

Explanation:

Using Amazon Bedrock with large language models (LLMs) allows for efficient utilization of AI to answer queries based on context provided in product manuals. To achieve this cost-effectively, the company should avoid unnecessary use of resources.

* Option A (Correct): "Use prompt engineering to add one PDF file as context to the user prompt when the prompt is submitted to Amazon Bedrock": This is the most cost-effective solution. By using prompt engineering, only the relevant content from one PDF file is added as context to each query. This approach minimizes the amount of data processed, which helps in reducing costs associated with LLMs' computational requirements.

* Option B: "Use prompt engineering to add all the PDF files as context to the user prompt when the prompt is submitted to Amazon Bedrock" is incorrect. Including all PDF files would increase costs significantly due to the large context size processed by the model.

* Option C: "Use all the PDF documents to fine-tune a model with Amazon Bedrock" is incorrect. Fine-tuning a model is more expensive than using prompt engineering, especially if done for multiple documents.

* Option D: "Upload PDF documents to an Amazon Bedrock knowledge base" is incorrect because Amazon Bedrock does not have a built-in knowledge base feature for directly managing and querying PDF documents.

AWS AI Practitioner References:

* Prompt Engineering for Cost-Effective AI: AWS emphasizes the importance of using prompt engineering to minimize costs when interacting with LLMs. By carefully selecting relevant context, users can reduce the amount of data processed and save on expenses.

NEW QUESTION # 364

A company is using Amazon SageMaker to develop AI models.

Select the correct SageMaker feature or resource from the following list for each step in the AI model lifecycle workflow. Each SageMaker feature or resource should be selected one time or not at all. (Select TWO.) SageMaker Clarify SageMaker Model Registry SageMaker Serverless Inference

Managing different versions of the model

Select...
Select...
SageMaker Clarify
SageMaker Model Registry
SageMaker Serverless Inference

Using the current model to make predictions

Select...
Select...
SageMaker Clarify
SageMaker Model Registry
SageMaker Serverless Inference

Answer:

Explanation:

Managing different versions of the model

Select...
Select...
SageMaker Clarify
SageMaker Model Registry
SageMaker Serverless Inference

Using the current model to make predictions

Select...
Select...
SageMaker Clarify
SageMaker Model Registry
SageMaker Serverless Inference

Explanation:

Managing different versions of the model SageMaker Model Registry

Using the current model to make predictions SageMaker Serverless Inference

SageMaker Model Registry, SageMaker Serverless inference

This question requires selecting the appropriate Amazon SageMaker feature for two distinct steps in the AI model lifecycle. Let's break down each step and evaluate the options:

Step 1: Managing different versions of the model

The goal here is to identify a SageMaker feature that supports version control and management of machine learning models. Let's analyze the options:

SageMaker Clarify: This feature is used to detect bias in models and explain model predictions, helping with fairness and interpretability. It does not provide functionality for managing model versions.

SageMaker Model Registry: This is a centralized repository in Amazon SageMaker that allows users to catalog, manage, and track different versions of machine learning models. It supports model versioning, approval workflows, and deployment tracking, making it ideal for managing different versions of a model.

SageMaker Serverless Inference: This feature enables users to deploy models for inference without managing servers, automatically scaling based on demand. It is focused on inference (predictions), not on managing model versions.

Conclusion for Step 1: The SageMaker Model Registry is the correct choice for managing different versions of the model.

Exact Extract Reference: According to the AWS SageMaker documentation, "The SageMaker Model Registry allows you to

catalog models for production, manage model versions, associate metadata, and manage approval status for deployment." (Source: AWS SageMaker Documentation - Model Registry, <https://docs.aws.amazon.com/sagemaker/latest/dg/model-registry.html>).

Step 2: Using the current model to make predictions

The goal here is to identify a SageMaker feature that facilitates making predictions (inference) with a deployed model. Let's evaluate the options:

SageMaker Clarify: As mentioned, this feature focuses on bias detection and explainability, not on performing inference or making predictions.

SageMaker Model Registry: While the Model Registry helps manage and catalog models, it is not used directly for making predictions. It can store models, but the actual inference process requires a deployment mechanism.

SageMaker Serverless Inference: This feature allows users to deploy models for inference without managing infrastructure. It automatically scales based on traffic and is specifically designed for making predictions in a cost-efficient, serverless manner.

Conclusion for Step 2: SageMaker Serverless Inference is the correct choice for using the current model to make predictions.

Exact Extract Reference: The AWS documentation states, "SageMaker Serverless Inference is a deployment option that allows you to deploy machine learning models for inference without configuring or managing servers. It automatically scales to handle inference requests, making it ideal for workloads with intermittent or unpredictable traffic." (Source: AWS SageMaker Documentation - Serverless Inference, <https://docs.aws.amazon.com/sagemaker/latest/dg/serverless-inference.html>).

amazon.com/sagemaker/latest/dg/serverless-inference.html).

Why Not Use the Same Feature Twice?

The question specifies that each SageMaker feature or resource should be selected one time or not at all. Since SageMaker Model Registry is used for version management and SageMaker Serverless Inference is used for predictions, each feature is selected exactly once. SageMaker Clarify is not applicable to either step, so it is not selected at all, fulfilling the question's requirements.

References:

AWS SageMaker Documentation: Model Registry (<https://docs.aws.amazon.com/sagemaker/latest/dg/model-registry.html>)

AWS SageMaker Documentation: Serverless Inference (<https://docs.aws.amazon.com/sagemaker/latest/dg/serverless-inference.html>)

AWS AI Practitioner Study Guide (conceptual alignment with SageMaker features for model lifecycle management and inference)

Let's format this question according to the specified structure and provide a detailed, verified answer based on AWS AI Practitioner knowledge and official AWS documentation. The question focuses on selecting an AWS database service that supports storage and queries of embeddings as vectors, which is relevant to generative AI applications.

NEW QUESTION # 365

A company is building a chatbot to improve user experience. The company is using a large language model (LLM) from Amazon Bedrock for intent detection. The company wants to use few-shot learning to improve intent detection accuracy.

Which additional data does the company need to meet these requirements?

- A. Pairs of user intents and correct chatbot responses
- **B. Pairs of user messages and correct user intents**
- C. Pairs of chatbot responses and correct user intents
- D. Pairs of user messages and correct chatbot responses

Answer: B

NEW QUESTION # 366

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