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Amazon AWS Certified AI Practitioner Sample Questions (Q101-Q106):

NEW QUESTION # 101

A company has built a solution by using generative AI. The solution uses large language models (LLMs) to translate training manuals from English into other languages. The company wants to evaluate the accuracy of the solution by examining the text generated for the manuals.

Which model evaluation strategy meets these requirements?

- A. Recall-Oriented Understudy for Gisting Evaluation (ROUGE)
- B. Root mean squared error (RMSE)
- **C. Bilingual Evaluation Understudy (BLEU)**
- D. F1 score

Answer: C

Explanation:

BLEU (Bilingual Evaluation Understudy) is a metric used to evaluate the accuracy of machine-generated translations by comparing them against reference translations. It is commonly used for translation tasks to measure how close the generated output is to professional human translations.

* Option A (Correct): "Bilingual Evaluation Understudy (BLEU)": This is the correct answer because BLEU is specifically designed to evaluate the quality of translations, making it suitable for the company's use case.

* Option B: "Root mean squared error (RMSE)" is incorrect because RMSE is used for regression tasks to measure prediction errors, not translation quality.

* Option C: "Recall-Oriented Understudy for Gisting Evaluation (ROUGE)" is incorrect as it is used to evaluate text summarization, not translation.

* Option D: "F1 score" is incorrect because it is typically used for classification tasks, not for evaluating translation accuracy.

AWS AI Practitioner References:

* Model Evaluation Metrics on AWS: AWS supports various metrics like BLEU for specific use cases, such as evaluating machine translation models.

NEW QUESTION # 102

Which AWS service makes foundation models (FMs) available to help users build and scale generative AI applications?

- A. Amazon Comprehend
- B. Amazon Q Developer
- C. Amazon Bedrock
- D. Amazon Kendra

Answer: C

Explanation:

The correct answer is Amazon Bedrock, AWS's fully managed service for building and scaling generative AI applications using foundation models (FMs). Bedrock gives developers access to models from leading providers such as Anthropic (Claude), Meta (Llama), Mistral, Cohere, and Amazon Titan. Users can invoke these models via API without managing infrastructure or model training. According to AWS documentation, Bedrock supports tasks such as text generation, summarization, question answering, image generation, and RAG workflows with minimal setup. It supports both on-demand and provisioned throughput modes and integrates with features like Guardrails, Knowledge Bases, and Agents for secure, enterprise-grade applications. Amazon Q Developer is a generative AI tool for developers, but it doesn't host or scale models.

Amazon Kendra is an intelligent search engine, and Amazon Comprehend is used for NLP tasks like entity extraction-not foundation model access.

Referenced AWS AI/ML Documents and Study Guides:

Amazon Bedrock Developer Guide - Foundation Models and Use Cases

AWS Certified ML Specialty Guide - Generative AI on AWS

NEW QUESTION # 103

A company has built a chatbot that can respond to natural language questions with images. The company wants to ensure that the chatbot does not return inappropriate or unwanted images.

Which solution will meet these requirements?

- A. Perform model validation.
- B. Implement moderation APIs.
- C. Retrain the model with a general public dataset.
- D. Automate user feedback integration.

Answer: B

Explanation:

Moderation APIs, such as Amazon Rekognition's Content Moderation API, can help filter and block inappropriate or unwanted images from being returned by a chatbot. These APIs are specifically designed to detect and manage undesirable content in images.

Option A (Correct): "Implement moderation APIs": This is the correct answer because moderation APIs are designed to identify and filter inappropriate content, ensuring the chatbot does not return unwanted images.

Option B: "Retrain the model with a general public dataset" is incorrect because retraining does not directly prevent inappropriate content from being returned.

Option C: "Perform model validation" is incorrect as it ensures model correctness, not content moderation.

Option D: "Automate user feedback integration" is incorrect because user feedback does not prevent inappropriate images in real-time.

AWS AI Practitioner Reference:

AWS Content Moderation Services: AWS provides moderation APIs for filtering unwanted content from applications.

NEW QUESTION # 104

A publishing company built a Retrieval Augmented Generation (RAG) based solution to give its users the ability to interact with published content. New content is published daily. The company wants to provide a near real-time experience to users.

Which steps in the RAG pipeline should the company implement by using offline batch processing to meet these requirements? (Select TWO.)

- A. Generation of embeddings for user queries
- **B. Creation of the search index**
- **C. Generation of content embeddings**
- D. Response generation for the user
- E. Retrieval of relevant content

Answer: B,C

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

In a RAG (Retrieval Augmented Generation) architecture, there are steps that can be optimized using offline batch processing, particularly for operations that do not require real-time updates:

* A. Generation of content embeddings: When new content is published, it can be processed in batches to generate embeddings (vector representations) offline. These embeddings are then used at query time for similarity search. As new documents come in daily, batch processing is ideal for generating embeddings for all new content together.

"Content/document embeddings are typically generated offline, as this operation can be computationally expensive and does not need to happen in real-time." (Reference: AWS GenAI RAG Blog, Amazon Bedrock RAG Pattern)

* C. Creation of the search index: After generating the content embeddings, these are indexed in a vector database or search service. This indexing is also typically performed in batch as part of the offline pipeline.

"Building or updating the vector index is often performed as a batch operation, reflecting the latest state of the content repository." (Reference: AWS RAG Pattern Whitepaper) B, D, and E are real-time steps. Embeddings for user queries (B), retrieval of relevant content (D), and response generation (E) must be processed in real-time to provide an interactive experience.

References:

Retrieval Augmented Generation (RAG) on AWS

Amazon Bedrock RAG Documentation

NEW QUESTION # 105

A company that streams media is selecting an Amazon Nova foundation model (FM) to process documents and images. The company is comparing Nova Micro and Nova Lite. The company wants to minimize costs.

- A. Nova Micro runs only on CPUs. Nova Lite runs only on GPUs.
- B. Nova Micro uses transformer-based architectures. Nova Lite does not use transformer-based architectures.
- **C. Nova Micro supports only text. Nova Lite supports images, videos, and text.**
- D. Nova Micro supports only text data. Nova Lite is optimized for numerical data.

Answer: C

Explanation:

The correct answer is C, because Amazon Nova Micro is a smaller, lower-cost foundation model that is text- only, while Nova Lite is a more capable multimodal model that supports images, videos, and text. According to AWS Bedrock documentation, the Nova model family includes variants that differ in capability and cost.

Nova Micro is optimized for lightweight text-based tasks, including summarization, question answering, and basic reasoning. This makes it cheaper to operate and well-suited for cost-sensitive workloads. Nova Lite, on the other hand, is a multimodal FM that can analyze documents, screenshots, photographs, charts, and videos, making it ideal for media companies requiring cross-format understanding. AWS clarifies that both Micro and Lite use transformer-based architectures, and run on managed infrastructure that abstracts hardware considerations. Therefore, the main differentiator is capability-and Nova Micro being text-only is the more cost-effective option. Nova Lite is appropriate only when image or video analysis is required.

Referenced AWS Documentation:

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