Amazon-Web-Services

Exam Questions AIF-C01

AWS Certified AI Practitioner

NEW QUESTION 1
An AI practitioner is using an Amazon Bedrock base model to summarize session chats from the customer service department. The AI practitioner wants to store invocation logs to monitor model input and output data.
Which strategy should the AI practitioner use?

A. Configure AWS CloudTrail as the logs destination for the model.
B. Enable invocation logging in Amazon Bedrock.
C. Configure AWS Audit Manager as the logs destination for the model.
D. Configure model invocation logging in Amazon EventBridge.

Answer: B

Explanation:
Amazon Bedrock provides an option to enable invocation logging to capture and store the input and output data of the models used. This is essential for monitoring and auditing purposes, particularly when handling customer data.
? Option B (Correct): "Enable invocation logging in Amazon Bedrock": This is the correct answer as it directly enables the logging of all model invocations, ensuring transparency and traceability.
? Option A: "Configure AWS CloudTrail" is incorrect because CloudTrail logs API
calls but does not provide specific logging for model inputs and outputs.
? Option C: "Configure AWS Audit Manager" is incorrect as Audit Manager is used for compliance reporting, not specific invocation logging for AI models.
? Option D: "Configure model invocation logging in Amazon EventBridge" is incorrect as EventBridge is for event-driven architectures, not specifically designed for logging AI model inputs and outputs.
AWS AI Practitioner References:
? Amazon Bedrock Logging Capabilities: AWS emphasizes using built-in logging features in Bedrock to maintain data integrity and transparency in model operations.

NEW QUESTION 2
A company is building a large language model (LLM) question answering chatbot. The company wants to decrease the number of actions call center employees need to take to respond to customer questions.
Which business objective should the company use to evaluate the effect of the LLM chatbot?

A. Website engagement rate
B. Average call duration
C. Corporate social responsibility
D. Regulatory compliance

Answer: B

Explanation:
The business objective to evaluate the effect of an LLM chatbot aimed at reducing the actions required by call center employees should be average call duration.
? Average Call Duration:
? Why Option B is Correct:
? Why Other Options are Incorrect:

NEW QUESTION 3
A law firm wants to build an AI application by using large language models (LLMs). The application will read legal documents and extract key points from the documents. Which solution meets these requirements?

A. Build an automatic named entity recognition system.
B. Create a recommendation engine.
C. Develop a summarization chatbot.
D. Develop a multi-language translation system.

Answer: C

Explanation:
A summarization chatbot is ideal for extracting key points from legal documents. Large language models (LLMs) can be used to summarize complex texts, such as legal documents, making them more accessible and understandable.
? Option C (Correct): "Develop a summarization chatbot": This is the correct answer
because a summarization chatbot uses LLMs to condense and extract key information from text, which is precisely the requirement for reading and summarizing legal documents.
? Option A: "Build an automatic named entity recognition system" is incorrect
because it focuses on identifying specific entities, not summarizing documents.
? Option B: "Create a recommendation engine" is incorrect as it is used to suggest products or content, not summarize text.
? Option D: "Develop a multi-language translation system" is incorrect because translation is unrelated to summarizing text.
AWS AI Practitioner References:
? Using LLMs for Text Summarization on AWS: AWS supports developing summarization tools using its AI services, including Amazon Bedrock.

NEW QUESTION 4
A company has developed an ML model for image classification. The company wants to deploy the model to production so that a web application can use the model.
The company needs to implement a solution to host the model and serve predictions without managing any of the underlying infrastructure.
Which solution will meet these requirements?

A. Use Amazon SageMaker Serverless Inference to deploy the model.
B. Use Amazon CloudFront to deploy the model.
C. Use Amazon API Gateway to host the model and serve predictions.
D. Use AWS Batch to host the model and serve predictions.

Answer: A

Explanation:
Amazon SageMaker Serverless Inference is the correct solution for deploying an ML model to production in a way that allows a web application to use the model without the need to manage the underlying infrastructure.
? Amazon SageMaker Serverless Inference provides a fully managed environment
for deploying machine learning models. It automatically provisions, scales, and manages the infrastructure required to host the model, removing the need for the company to manage servers or other underlying infrastructure.
? Why Option A is Correct:
? Why Other Options are Incorrect:
Thus, A is the correct answer, as it aligns with the requirement of deploying an ML model without managing any underlying infrastructure.

NEW QUESTION 5
A company wants to display the total sales for its top-selling products across various retail locations in the past 12 months.
Which AWS solution should the company use to automate the generation of graphs?

A. Amazon Q in Amazon EC2
B. Amazon Q Developer
C. Amazon Q in Amazon QuickSight
D. Amazon Q in AWS Chatbot

Answer: C

Explanation:
Amazon QuickSight is a fully managed business intelligence (BI) service that allows users to create and publish interactive dashboards that include visualizations like graphs, charts, and tables. "Amazon Q" is the natural language query feature within Amazon QuickSight. It enables users to ask questions about their data in natural language and receive visual responses such as graphs.
? Option C (Correct): "Amazon Q in Amazon QuickSight": This is the correct answer
because Amazon QuickSight Q is specifically designed to allow users to explore their data through natural language queries, and it can automatically generate graphs to display sales data and other metrics. This makes it an ideal choice for the company to automate the generation of graphs showing total sales for its top-selling products across various retail locations.
? Option A, B, and D: These options are incorrect:
AWS AI Practitioner References:
? Amazon QuickSight Q is designed to provide insights from data by using natural language queries, making it a powerful tool for generating automated graphs and visualizations directly from queried data.
? Business Intelligence (BI) on AWS: AWS services such as Amazon QuickSight
provide business intelligence capabilities, including automated reporting and visualization features, which are ideal for companies seeking to visualize data like sales trends over time.

NEW QUESTION 6
An AI practitioner has built a deep learning model to classify the types of materials in images. The AI practitioner now wants to measure the model performance.
Which metric will help the AI practitioner evaluate the performance of the model?

A. Confusion matrix
B. Correlation matrix
C. R2 score
D. Mean squared error (MSE)

Answer: A

Explanation:
A confusion matrix is the correct metric for evaluating the performance of a classification model, such as the deep learning model built to classify types of materials in images.
? Confusion Matrix:
? Why Option A is Correct:
? Why Other Options are Incorrect:

NEW QUESTION 7
A company wants to make a chatbot to help customers. The chatbot will help solve technical problems without human intervention. The company chose a foundation model (FM) for the chatbot. The chatbot needs to produce responses that adhere to company tone.
Which solution meets these requirements?

A. Set a low limit on the number of tokens the FM can produce.
B. Use batch inferencing to process detailed responses.
C. Experiment and refine the prompt until the FM produces the desired responses.
D. Define a higher number for the temperature parameter.

Answer: C

Explanation:
Experimenting and refining the prompt is the best approach to ensure that the chatbot using a foundation model (FM) produces responses that adhere to the company's tone.
? Prompt Engineering:
? Why Option C is Correct:
? Why Other Options are Incorrect:

NEW QUESTION 8
An AI practitioner wants to use a foundation model (FM) to design a search application. The search application must handle queries that have text and images.
Which type of FM should the AI practitioner use to power the search application?

A. Multi-modal embedding model
B. Text embedding model
C. Multi-modal generation model
D. Image generation model

Answer: A

Explanation:
A multi-modal embedding model is the correct type of foundation model (FM) for powering a search application that handles queries containing both text and images.
? Multi-Modal Embedding Model:
? Why Option A is Correct:
? Why Other Options are Incorrect:

NEW QUESTION 9
A company has a foundation model (FM) that was customized by using Amazon Bedrock to answer customer queries about products. The company wants to validate the model's responses to new types of queries. The company needs to upload a new dataset that Amazon Bedrock can use for validation.
Which AWS service meets these requirements?

A. Amazon S3
B. Amazon Elastic Block Store (Amazon EBS)
C. Amazon Elastic File System (Amazon EFS)
D. AWS Snowcone

Answer: A

Explanation:
Amazon S3 is the optimal choice for storing and uploading datasets used for machine learning model validation and training. It offers scalable, durable, and secure storage, making it ideal for holding datasets required by Amazon Bedrock for validation purposes.
? Option A (Correct): "Amazon S3": This is the correct answer because Amazon S3
is widely used for storing large datasets that are accessed by machine learning models, including those in Amazon Bedrock.
? Option B: "Amazon Elastic Block Store (Amazon EBS)" is incorrect because EBS
is a block storage service for use with Amazon EC2, not for directly storing datasets for Amazon Bedrock.
? Option C: "Amazon Elastic File System (Amazon EFS)" is incorrect as it is
primarily used for file storage with shared access by multiple instances.
? Option D: "AWS Snowcone" is incorrect because it is a physical device for offline data transfer, not suitable for directly providing data to Amazon Bedrock.
AWS AI Practitioner References:
? Storing and Managing Datasets on AWS for Machine Learning: AWS recommends using S3 for storing and managing datasets required for ML model training and validation.

NEW QUESTION 10
How can companies use large language models (LLMs) securely on Amazon Bedrock?

A. Design clear and specific prompt
B. Configure AWS Identity and Access Management (IAM) roles and policies by using least privilege access.
C. Enable AWS Audit Manager for automatic model evaluation jobs.
D. Enable Amazon Bedrock automatic model evaluation jobs.
E. Use Amazon CloudWatch Logs to make models explainable and to monitor for bias.

Answer: A

Explanation:
To securely use large language models (LLMs) on Amazon Bedrock, companies should design clear and specific prompts to avoid unintended outputs and ensure proper configuration of AWS Identity and Access Management (IAM) roles and policies with the principle of least privilege. This approach limits access to sensitive resources and minimizes the potential impact of security incidents.
? Option A (Correct): "Design clear and specific prompts. Configure AWS Identity
and Access Management (IAM) roles and policies by using least privilege access": This is the correct answer as it directly addresses both security practices in prompt design and access management.
? Option B: "Enable AWS Audit Manager for automatic model evaluation jobs" is
incorrect because Audit Manager is for compliance and auditing, not directly related to secure LLM usage.
? Option C: "Enable Amazon Bedrock automatic model evaluation jobs" is incorrect
because Bedrock does not provide automatic model evaluation jobs specifically for security purposes.
? Option D: "Use Amazon CloudWatch Logs to make models explainable and to
monitor for bias" is incorrect because CloudWatch Logs are used for monitoring and not directly for making models explainable or secure.
AWS AI Practitioner References:
? Secure AI Practices on AWS: AWS recommends configuring IAM roles and using least privilege access to ensure secure usage of AI models.

NEW QUESTION 10
A company wants to classify human genes into 20 categories based on gene characteristics. The company needs an ML algorithm to document how the inner mechanism of the model affects the output.
Which ML algorithm meets these requirements?

A. Decision trees
B. Linear regression
C. Logistic regression
D. Neural networks

Answer: A

Explanation:

Decision trees are an interpretable machine learning algorithm that clearly documents the decision-making process by showing how each input feature affects the output. This transparency is particularly useful when explaining how the model arrives at a certain decision, making it suitable for classifying genes into categories.
? Option A (Correct): "Decision trees": This is the correct answer because decision
trees provide a clear and interpretable representation of how input features influence the model's output, making it ideal for understanding the inner mechanisms affecting predictions.
? Option B: "Linear regression" is incorrect because it is used for regression tasks,
not classification.
? Option C: "Logistic regression" is incorrect as it does not provide the same level of interpretability in documenting decision-making processes.
? Option D: "Neural networks" is incorrect because they are often considered "black boxes" and do not easily explain how they arrive at their outputs.
AWS AI Practitioner References:
? Interpretable Machine Learning Models on AWS: AWS supports using interpretable models, such as decision trees, for tasks that require clear documentation of how input data affects output decisions.

NEW QUESTION 11
Which term describes the numerical representations of real-world objects and concepts that AI and natural language processing (NLP) models use to improve understanding of textual information?

A. Embeddings
B. Tokens
C. Models
D. Binaries

Answer: A

Explanation:
Embeddings are numerical representations of objects (such as words, sentences, or documents) that capture the objects' semantic meanings in a form that AI and NLP models can easily understand. These representations help models improve their understanding of textual information by representing concepts in a continuous vector space.
? Option A (Correct): "Embeddings": This is the correct term, as embeddings provide
a way for models to learn relationships between different objects in their input space, improving their understanding and processing capabilities.
? Option B: "Tokens" are pieces of text used in processing, but they do not capture
semantic meanings like embeddings do.
? Option C: "Models" are the algorithms that use embeddings and other inputs, not the representations themselves.
? Option D: "Binaries" refer to data represented in binary form, which is unrelated to the concept of embeddings.
AWS AI Practitioner References:
? Understanding Embeddings in AI and NLP: AWS provides resources and tools, like Amazon SageMaker, that utilize embeddings to represent data in formats suitable for machine learning models.

NEW QUESTION 15
An education provider is building a question and answer application that uses a generative AI model to explain complex concepts. The education provider wants to automatically change the style of the model response depending on who is asking the question. The education provider will give the model the age range of the user who has asked the question.
Which solution meets these requirements with the LEAST implementation effort?

A. Fine-tune the model by using additional training data that is representative of the various age ranges that the application will support.
B. Add a role description to the prompt context that instructs the model of the age range that the response should target.
C. Use chain-of-thought reasoning to deduce the correct style and complexity for a response suitable for that user.
D. Summarize the response text depending on the age of the user so that younger users receive shorter responses.

Answer: B

Explanation:
Adding a role description to the prompt context is a straightforward way to instruct the generative AI model to adjust its response style based on the user's age range. This method requires minimal implementation effort as it does not involve additional training or complex logic.
? Option B (Correct): "Add a role description to the prompt context that instructs the model of the age range that the response should target": This is the correct answer because it involves the least implementation effort while effectively guiding the
model to tailor responses according to the age range.
? Option A: "Fine-tune the model by using additional training data" is incorrect because it requires significant effort in gathering data and retraining the model.
? Option C: "Use chain-of-thought reasoning" is incorrect as it involves complex reasoning that may not directly address the need to adjust response style based on age.
? Option D: "Summarize the response text depending on the age of the user" is incorrect because it involves additional processing steps after generating the initial response, increasing complexity.
AWS AI Practitioner References:
? Prompt Engineering Techniques on AWS: AWS recommends using prompt context effectively to guide generative models in providing tailored responses based on specific user attributes.

NEW QUESTION 17
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 one PDF file as context to the user prompt when the prompt is submitted to Amazon Bedrock.
B. Use prompt engineering to add all the PDF files 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 Bedroc
D. Use the fine- tuned model to process user prompts.
E. Upload PDF documents to an Amazon Bedrock knowledge bas
F. Use the knowledge base to provide context when users submit prompts to Amazon Bedrock.

Answer: A

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 20
A company is using an Amazon Bedrock base model to summarize documents for an internal use case. The company trained a custom model to improve the summarization quality.
Which action must the company take to use the custom model through Amazon Bedrock?

A. Purchase Provisioned Throughput for the custom model.
B. Deploy the custom model in an Amazon SageMaker endpoint for real-time inference.
C. Register the model with the Amazon SageMaker Model Registry.
D. Grant access to the custom model in Amazon Bedrock.

Answer: B

Explanation:
To use a custom model that has been trained to improve summarization quality, the company must deploy the model on an Amazon SageMaker endpoint. This allows the model to be used for real-time inference through Amazon Bedrock or other AWS services. By deploying the model in SageMaker, the custom model can be accessed programmatically via API calls, enabling integration with Amazon Bedrock.
? Option B (Correct): "Deploy the custom model in an Amazon SageMaker endpoint
for real-time inference": This is the correct answer because deploying the model on SageMaker enables it to serve real-time predictions and be integrated with Amazon Bedrock.
? Option A: "Purchase Provisioned Throughput for the custom model" is incorrect
because provisioned throughput is related to database or storage services, not model deployment.
? Option C: "Register the model with the Amazon SageMaker Model Registry" is
incorrect because while the model registry helps with model management, it does not make the model accessible for real-time inference.
? Option D: "Grant access to the custom model in Amazon Bedrock" is incorrect
because Bedrock does not directly manage custom model access; it relies on deployed endpoints like those in SageMaker.
AWS AI Practitioner References:
? Amazon SageMaker Endpoints: AWS recommends deploying models to SageMaker endpoints to use them for real-time inference in various applications.

NEW QUESTION 24
A company is using the Generative AI Security Scoping Matrix to assess security responsibilities for its solutions. The company has identified four different solution scopes based on the matrix.
Which solution scope gives the company the MOST ownership of security responsibilities?

A. Using a third-party enterprise application that has embedded generative AI features.
B. Building an application by using an existing third-party generative AI foundation model (FM).
C. Refining an existing third-party generative AI foundation model (FM) by fine-tuning the model by using data specific to the business.
D. Building and training a generative AI model from scratch by using specific data that a customer owns.

Answer: D

Explanation:
Building and training a generative AI model from scratch provides the company with the most ownership and control over security responsibilities. In this scenario, the company is responsible for all aspects of the security of the data, the model, and the infrastructure.
? Option D (Correct): "Building and training a generative AI model from scratch by
using specific data that a customer owns": This is the correct answer because it involves complete ownership of the model, data, and infrastructure, giving the company the highest level of responsibility for security.
? Option A: "Using a third-party enterprise application that has embedded generative
AI features" is incorrect as the company has minimal control over the security of the AI features embedded within a third-party application.
? Option B: "Building an application using an existing third-party generative AI
foundation model (FM)" is incorrect because security responsibilities are shared with the third-party model provider.
? Option C: "Refining an existing third-party generative AI FM by fine-tuning the
model with business-specific data" is incorrect as the foundation model and part of
the security responsibilities are still managed by the third party.
AWS AI Practitioner References:
? Generative AI Security Scoping Matrix on AWS: AWS provides a security responsibility matrix that outlines varying levels of control and responsibility depending on the approach to developing and using AI models.

NEW QUESTION 28
Which AWS feature records details about ML instance data for governance and reporting?

A. Amazon SageMaker Model Cards
B. Amazon SageMaker Debugger

C. Amazon SageMaker Model Monitor
D. Amazon SageMaker JumpStart

Answer: A

Explanation:
Amazon SageMaker Model Cards provide a centralized and standardized repository for documenting machine learning models. They capture key details such as the model's intended use, training and evaluation datasets, performance metrics, ethical considerations, and other relevant information. This documentation facilitates governance and reporting by ensuring that all stakeholders have access to consistent and comprehensive information about each model. While Amazon SageMaker Debugger is used for real-time debugging and monitoring during training, and Amazon SageMaker Model Monitor tracks deployed models for data and prediction quality, neither offers the comprehensive documentation capabilities of Model Cards. Amazon SageMaker JumpStart provides pre-built models and solutions but does not focus on governance documentation.
Reference: Amazon SageMaker Model Cards

NEW QUESTION 29
A company wants to develop a large language model (LLM) application by using Amazon Bedrock and customer data that is uploaded to Amazon S3. The company's security policy states that each team can access data for only the team's own customers.
Which solution will meet these requirements?

A. Create an Amazon Bedrock custom service role for each team that has access to only the team's customer data.
B. Create a custom service role that has Amazon S3 acces
C. Ask teams to specify the customer name on each Amazon Bedrock request.
D. Redact personal data in Amazon S3. Update the S3 bucket policy to allow team access to customer data.
E. Create one Amazon Bedrock role that has full Amazon S3 acces
F. Create IAM roles for each team that have access to only each team's customer folders.

Answer: A

Explanation:
To comply with the company's security policy, which restricts each team to access data for only their own customers, creating an Amazon Bedrock custom service role for each team is the correct solution.
? Custom Service Role Per Team:
? Why Option A is Correct:
? Why Other Options are Incorrect:
Thus, A is the correct answer to meet the company's security requirements.

NEW QUESTION 30
A company deployed an AI/ML solution to help customer service agents respond to frequently asked questions. The questions can change over time. The company wants to give customer service agents the ability to ask questions and receive automatically generated answers to common customer questions. Which strategy will meet these requirements MOST cost-effectively?

A. Fine-tune the model regularly.
B. Train the model by using context data.
C. Pre-train and benchmark the model by using context data.
D. Use Retrieval Augmented Generation (RAG) with prompt engineering techniques.

Answer: D

Explanation:
RAG combines large pre-trained models with retrieval mechanisms to fetch relevant context from a knowledge base. This approach is cost-effective as it eliminates the need for frequent model retraining while ensuring responses are contextually accurate and up to date. References: AWS RAG Techniques.

NEW QUESTION 31
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. Text data
B. Image data
C. Time series data
D. Binary data

Answer: C

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.
Reference: Amazon SageMaker DeepAR Algorithm

NEW QUESTION 35
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 Transcribe
D. Amazon Translate

Answer: B

Explanation:
Amazon Comprehend is the correct service to analyze customer support interactions and identify frequently asked questions and insights.
? Amazon Comprehend:
? Why Option B is Correct:
? Why Other Options are Incorrect:

NEW QUESTION 36
A company wants to use a large language model (LLM) to develop a conversational agent. The company needs to prevent the LLM from being manipulated with common prompt engineering techniques to perform undesirable actions or expose sensitive information.
Which action will reduce these risks?

A. Create a prompt template that teaches the LLM to detect attack patterns.
B. Increase the temperature parameter on invocation requests to the LLM.
C. Avoid using LLMs that are not listed in Amazon SageMaker.
D. Decrease the number of input tokens on invocations of the LLM.

Answer: A

Explanation:
Creating a prompt template that teaches the LLM to detect attack patterns is the most effective way to reduce the risk of the model being manipulated through prompt engineering.
? Prompt Templates for Security:
? Why Option A is Correct:
? Why Other Options are Incorrect:

NEW QUESTION 37
A loan company is building a generative AI-based solution to offer new applicants discounts based on specific business criteria. The company wants to build and use an AI model responsibly to minimize bias that could negatively affect some customers.
Which actions should the company take to meet these requirements? (Select TWO.)

A. Detect imbalances or disparities in the data.
B. Ensure that the model runs frequently.
C. Evaluate the model's behavior so that the company can provide transparency to stakeholders.
D. Use the Recall-Oriented Understudy for Gisting Evaluation (ROUGE) technique to ensure that the model is 100% accurate.
E. Ensure that the model's inference time is within the accepted limits.

Answer: AC

Explanation:
To build and use an AI model responsibly, especially in sensitive applications like loan approvals, it's crucial to address potential biases and ensure transparency:
? Detect imbalances or disparities in the data (Option A): Analyzing the training data
for imbalances or disparities is essential. Imbalanced data can lead to models that are biased towards the majority class, potentially disadvantaging certain groups. By identifying and mitigating these imbalances, the company can reduce the risk of biased predictions.
? Evaluate the model's behavior to provide transparency to stakeholders (Option C):
Regularly assessing the model's outputs and decision-making processes allows the company to understand how decisions are made. This evaluation fosters transparency, enabling the company to explain model behavior to stakeholders
and ensure that the model operates as intended without unintended biases. Options B, D, and E, while relevant to model performance and evaluation, do not directly address the responsible use of AI concerning bias and transparency.
Reference: AWS Certified AI Practitioner Exam Guide

NEW QUESTION 39
Which metric measures the runtime efficiency of operating AI models?

A. Customer satisfaction score (CSAT)
B. Training time for each epoch
C. Average response time
D. Number of training instances

Answer: C

Explanation:
The average response time is the correct metric for measuring the runtime efficiency of operating AI models.
? Average Response Time:
? Why Option C is Correct:
? Why Other Options are Incorrect:

NEW QUESTION 40
A company wants to create an application by using Amazon Bedrock. The company has a limited budget and prefers flexibility without long-term commitment.
Which Amazon Bedrock pricing model meets these requirements?

A. On-Demand
B. Model customization
C. Provisioned Throughput
D. Spot Instance

Answer: A

Explanation:
Amazon Bedrock offers an on-demand pricing model that provides flexibility without long- term commitments. This model allows companies to pay only for the resources they use, which is ideal for a limited budget and offers flexibility.
? Option A (Correct): "On-Demand": This is the correct answer because on-demand
pricing allows the company to use Amazon Bedrock without any long-term commitments and to manage costs according to their budget.
? Option B: "Model customization" is a feature, not a pricing model.
? Option C: "Provisioned Throughput" involves reserving capacity ahead of time, which might not offer the desired flexibility and could lead to higher costs if the capacity is not fully used.
? Option D: "Spot Instance" is a pricing model for EC2 instances and does not apply to Amazon Bedrock.
AWS AI Practitioner References:
? AWS Pricing Models for Flexibility: On-demand pricing is a key AWS model for services that require flexibility and no long-term commitment, ensuring cost-effectiveness for projects with variable usage patterns.

NEW QUESTION 41
An AI practitioner trained a custom model on Amazon Bedrock by using a training dataset that contains confidential data. The AI practitioner wants to ensure that the custom model does not generate inference responses based on confidential data.
How should the AI practitioner prevent responses based on confidential data?

A. Delete the custom mode
B. Remove the confidential data from the training datase
C. Retrain the custom model.
D. Mask the confidential data in the inference responses by using dynamic data masking.
E. Encrypt the confidential data in the inference responses by using Amazon SageMaker.
F. Encrypt the confidential data in the custom model by using AWS Key Management Service (AWS KMS).

Answer: A

Explanation:
When a model is trained on a dataset containing confidential or sensitive data, the model may inadvertently learn patterns from this data, which could then be reflected in its inference responses. To ensure that a model does not generate responses based on confidential data, the most effective approach is to remove the confidential data from the training dataset and then retrain the model.
Explanation of Each Option:
? Option A (Correct): "Delete the custom model. Remove the confidential data from the training dataset. Retrain the custom model."This option is correct because it directly addresses the core issue: the model has been trained on confidential data. The only way to ensure that the model does not produce inferences based on this data is to remove the confidential information from the training dataset and then retrain the model from scratch. Simply deleting the model and retraining it ensures that no confidential data is learned or retained by the model. This approach follows the best practices recommended by AWS for handling sensitive data when using machine learning services like Amazon Bedrock.
? Option B: "Mask the confidential data in the inference responses by using dynamic data masking."This option is incorrect because dynamic data masking is typically used to mask or obfuscate sensitive data in a database. It does not address the core problem of the model being trained on confidential data. Masking data in inference responses does not prevent the model from using confidential data it learned during training.
? Option C: "Encrypt the confidential data in the inference responses by using Amazon SageMaker."This option is incorrect because encrypting the inference responses does not prevent the model from generating outputs based on confidential data. Encryption only secures the data at rest or in transit but does not affect the model's underlying knowledge or training process.
? Option D: "Encrypt the confidential data in the custom model by using AWS Key Management Service (AWS KMS)."This option is incorrect as well because encrypting the data within the model does not prevent the model from generating responses based on the confidential data it learned during training. AWS KMS can encrypt data, but it does not modify the learning that the model has already performed.
AWS AI Practitioner References:
? Data Handling Best Practices in AWS Machine Learning: AWS advises practitioners to carefully handle training data, especially when it involves sensitive or confidential information. This includes preprocessing steps like data anonymization or removal of sensitive data before using it to train machine learning models.
? Amazon Bedrock and Model Training Security: Amazon Bedrock provides foundational models and customization capabilities, but any training involving sensitive data should follow best practices, such as removing or anonymizing confidential data to prevent unintended data leakage.

NEW QUESTION 44
Which option is a use case for generative AI models?

A. Improving network security by using intrusion detection systems
B. Creating photorealistic images from text descriptions for digital marketing
C. Enhancing database performance by using optimized indexing
D. Analyzing financial data to forecast stock market trends

Answer: B

Explanation:
Generative AI models are used to create new content based on existing data. One common use case is generating photorealistic images from text descriptions, which is particularly useful in digital marketing, where visual content is key to engaging potential customers.
? Option B (Correct): "Creating photorealistic images from text descriptions for digital
marketing": This is the correct answer because generative AI models, like those offered by Amazon Bedrock, can create images based on text descriptions, making them highly valuable for generating marketing materials.
? Option A: "Improving network security by using intrusion detection systems" is
incorrect because this is a use case for traditional machine learning models, not generative AI.
? Option C: "Enhancing database performance by using optimized indexing" is
incorrect as it is unrelated to generative AI.
? Option D: "Analyzing financial data to forecast stock market trends" is incorrect because it typically involves predictive modeling rather than generative AI.
AWS AI Practitioner References:
? Use Cases for Generative AI Models on AWS: AWS highlights the use of generative AI for creative content generation, including image creation, text generation, and more, which is suited for digital marketing applications.

NEW QUESTION 45

An AI practitioner has a database of animal photos. The AI practitioner wants to automatically identify and categorize the animals in the photos without manual human effort.
Which strategy meets these requirements?

A. Object detection
B. Anomaly detection
C. Named entity recognition
D. Inpainting

Answer: A

Explanation:
Object detection is the correct strategy for automatically identifying and categorizing animals in photos.
? Object Detection:
? Why Option A is Correct:
? Why Other Options are Incorrect:

NEW QUESTION 46
A digital devices company wants to predict customer demand for memory hardware. The company does not have coding experience or knowledge of ML algorithms and needs to develop a data-driven predictive model. The company needs to perform analysis on internal data and external data.
Which solution will meet these requirements?

A. Store the data in Amazon S3. Create ML models and demand forecast predictions by using Amazon SageMaker built-in algorithms that use the data from Amazon S3.
B. Import the data into Amazon SageMaker Data Wrangle
C. Create ML models and demand forecast predictions by using SageMaker built-in algorithms.
D. Import the data into Amazon SageMaker Data Wrangle
E. Build ML models and demand forecast predictions by using an Amazon Personalize Trending-Now recipe.
F. Import the data into Amazon SageMaker Canva
G. Build ML models and demand forecast predictions by selecting the values in the data from SageMaker Canvas.

Answer: D

Explanation:
Amazon SageMaker Canvas is a visual, no-code machine learning interface that allows users to build machine learning models without having any coding experience or knowledge of machine learning algorithms. It enables users to analyze internal and external data, and make predictions using a guided interface.
? Option D (Correct): "Import the data into Amazon SageMaker Canvas. Build ML
models and demand forecast predictions by selecting the values in the data from SageMaker Canvas": This is the correct answer because SageMaker Canvas is designed for users without coding experience, providing a visual interface to build predictive models with ease.
? Option A: "Store the data in Amazon S3 and use SageMaker built-in algorithms" is
incorrect because it requires coding knowledge to interact with SageMaker's built- in algorithms.
? Option B: "Import the data into Amazon SageMaker Data Wrangler" is incorrect.
Data Wrangler is primarily for data preparation and not directly focused on creating ML models without coding.
? Option C: "Use Amazon Personalize Trending-Now recipe" is incorrect as Amazon
Personalize is for building recommendation systems, not for general demand forecasting.
AWS AI Practitioner References:
? Amazon SageMaker Canvas Overview: AWS documentation emphasizes Canvas as a no-code solution for building machine learning models, suitable for business analysts and users with no coding experience.

NEW QUESTION 50
A company has a database of petabytes of unstructured data from internal sources. The company wants to transform this data into a structured format so that its data scientists can perform machine learning (ML) tasks.
Which service will meet these requirements?

A. Amazon Lex
B. Amazon Rekognition
C. Amazon Kinesis Data Streams
D. AWS Glue

Answer: D

Explanation:
AWS Glue is the correct service for transforming petabytes of unstructured data into a structured format suitable for machine learning tasks.
? AWS Glue:
? Why Option D is Correct:
? Why Other Options are Incorrect:

NEW QUESTION 54
A company needs to build its own large language model (LLM) based on only the company's private data. The company is concerned about the environmental effect of the training process.
Which Amazon EC2 instance type has the LEAST environmental effect when training LLMs?

A. Amazon EC2 C series
B. Amazon EC2 G series
C. Amazon EC2 P series
D. Amazon EC2 Trn series

Answer: D

Explanation:

The Amazon EC2 Trn series (Trainium) instances are designed for high-performance, cost- effective machine learning training while being energy-efficient. AWS Trainium-powered instances are optimized for deep learning models and have been developed to minimize environmental impact by maximizing energy efficiency.
? Option D (Correct): "Amazon EC2 Trn series": This is the correct answer because the Trn series is purpose-built for training deep learning models with lower energy consumption, which aligns with the company's concern about environmental effects.
? Option A: "Amazon EC2 C series" is incorrect because it is intended for compute-
intensive tasks but not specifically optimized for ML training with environmental considerations.
? Option B: "Amazon EC2 G series" (Graphics Processing Unit instances) is
optimized for graphics-intensive applications but does not focus on minimizing environmental impact for training.
? Option C: "Amazon EC2 P series" is designed for ML training but does not offer
the same level of energy efficiency as the Trn series.
AWS AI Practitioner References:
? AWS Trainium Overview: AWS promotes Trainium instances as their most energy- efficient and cost-effective solution for ML model training.

NEW QUESTION 57
A financial institution is using Amazon Bedrock to develop an AI application. The application is hosted in a VPC. To meet regulatory compliance standards, the VPC is not allowed access to any internet traffic.
Which AWS service or feature will meet these requirements?

A. AWS PrivateLink
B. Amazon Macie
C. Amazon CloudFront
D. Internet gateway

Answer: A

Explanation:
AWS PrivateLink enables private connectivity between VPCs and AWS services without exposing traffic to the public internet. This feature is critical for meeting regulatory compliance standards that require isolation from public internet traffic.
? Option A (Correct): "AWS PrivateLink": This is the correct answer because it
allows secure access to Amazon Bedrock and other AWS services from a VPC without internet access, ensuring compliance with regulatory standards.
? Option B: "Amazon Macie" is incorrect because it is a security service for data
classification and protection, not for managing private network traffic.
? Option C: "Amazon CloudFront" is incorrect because it is a content delivery network service and does not provide private network connectivity.
? Option D: "Internet gateway" is incorrect as it enables internet access, which violates the VPC's no-internet-traffic policy.
AWS AI Practitioner References:
? AWS PrivateLink Documentation: AWS highlights PrivateLink as a solution for connecting VPCs to AWS services privately, which is essential for organizations with strict regulatory requirements.

NEW QUESTION 62
A company has terabytes of data in a database that the company can use for business analysis. The company wants to build an AI-based application that can build a SQL query from input text that employees provide. The employees have minimal experience with technology.
Which solution meets these requirements?

A. Generative pre-trained transformers (GPT)
B. Residual neural network
C. Support vector machine
D. WaveNet

Answer: A

Explanation:
Generative Pre-trained Transformers (GPT) are suitable for building an AI-based application that can generate SQL queries from natural language input provided by employees.
? GPT for Natural Language Processing:
? Why Option A is Correct:
? Why Other Options are Incorrect:

NEW QUESTION 65
A company is building an ML model to analyze archived data. The company must perform inference on large datasets that are multiple GBs in size. The company does not need to access the model predictions immediately.
Which Amazon SageMaker inference option will meet these requirements?

A. Batch transform
B. Real-time inference
C. Serverless inference
D. Asynchronous inference

Answer: A

Explanation:
Batch transform in Amazon SageMaker is designed for offline processing of large datasets. It is ideal for scenarios where immediate predictions are not required, and the inference can be done on large datasets that are multiple gigabytes in size. This method processes data in batches, making it suitable for analyzing archived data without the need for real- time access to predictions.
? Option A (Correct): "Batch transform": This is the correct answer because batch
transform is optimized for handling large datasets and is suitable when immediate access to predictions is not required.
? Option B: "Real-time inference" is incorrect because it is used for low-latency, real-
time prediction needs, which is not required in this case.
? Option C: "Serverless inference" is incorrect because it is designed for small-scale, intermittent inference requests, not for large batch processing.
? Option D: "Asynchronous inference" is incorrect because it is used when immediate predictions are required, but with high throughput, whereas batch transform is more suitable for very large datasets.

AWS AI Practitioner References:
? Batch Transform on AWS SageMaker: AWS recommends using batch transform for large datasets when real-time processing is not needed, ensuring cost-effectiveness and scalability.

NEW QUESTION 68
An e-commerce company wants to build a solution to determine customer sentiments based on written customer reviews of products.
Which AWS services meet these requirements? (Select TWO.)

A. Amazon Lex
B. Amazon Comprehend
C. Amazon Polly
D. Amazon Bedrock
E. Amazon Rekognition

Answer: BD

Explanation:
To determine customer sentiments based on written customer reviews, the company can use Amazon Comprehend and Amazon Bedrock.
? Amazon Comprehend:
? Amazon Bedrock:
? Why Other Options are Incorrect:

NEW QUESTION 69
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. Build a conversational chatbot by using Amazon Lex.
B. Transcribe call recordings by using Amazon Transcribe.
C. Extract information from call recordings by using Amazon SageMaker Model Monitor.
D. Create classification labels by using Amazon Comprehend.

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:
? Why Option B is Correct:
? Why Other Options are Incorrect:

NEW QUESTION 71
A large retailer receives thousands of customer support inquiries about products every day. The customer support inquiries need to be processed and responded to quickly. The company wants to implement Agents for Amazon Bedrock.
What are the key benefits of using Amazon Bedrock agents that could help this retailer?

A. Generation of custom foundation models (FMs) to predict customer needs
B. Automation of repetitive tasks and orchestration of complex workflows
C. Automatically calling multiple foundation models (FMs) and consolidating the results
D. Selecting the foundation model (FM) based on predefined criteria and metrics

Answer: B

Explanation:
Amazon Bedrock Agents provide the capability to automate repetitive tasks and orchestrate complex workflows using generative AI models. This is particularly beneficial for customer support inquiries, where quick and efficient processing is crucial.
? Option B (Correct): "Automation of repetitive tasks and orchestration of complex workflows": This is the correct answer because Bedrock Agents can automate common customer service tasks and streamline complex processes, improving response times and efficiency.
? Option A: "Generation of custom foundation models (FMs) to predict customer needs" is incorrect as Bedrock agents do not create custom models.
? Option C: "Automatically calling multiple foundation models (FMs) and consolidating the results" is incorrect because Bedrock agents focus on task automation rather than combining model outputs.
? Option D: "Selecting the foundation model (FM) based on predefined criteria and metrics" is incorrect as Bedrock agents are not designed for selecting models.
AWS AI Practitioner References:
? Amazon Bedrock Documentation: AWS explains that Bedrock Agents automate tasks and manage complex workflows, making them ideal for customer support automation.

NEW QUESTION 76
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. Bilingual Evaluation Understudy (BLEU)
B. Root mean squared error (RMSE)
C. Recall-Oriented Understudy for Gisting Evaluation (ROUGE)
D. F1 score

Answer: A

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 80
A company needs to train an ML model to classify images of different types of animals. The company has a large dataset of labeled images and will not label more data. Which type of learning should the company use to train the model?

A. Supervised learning.
B. Unsupervised learning.
C. Reinforcement learning.
D. Active learning.

Answer: A

Explanation:
Supervised learning is appropriate when the dataset is labeled. The model uses this data to learn patterns and classify images. Unsupervised learning, reinforcement learning, and active learning are not suitable since they either require unlabeled data or different problem settings. References: AWS Machine Learning Best Practices.

NEW QUESTION 84
A company is using few-shot prompting on a base model that is hosted on Amazon Bedrock. The model currently uses 10 examples in the prompt. The model is invoked once daily and is performing well. The company wants to lower the monthly cost.
Which solution will meet these requirements?

A. Customize the model by using fine-tuning.
B. Decrease the number of tokens in the prompt.
C. Increase the number of tokens in the prompt.
D. Use Provisioned Throughput.

Answer: B

Explanation:
Decreasing the number of tokens in the prompt reduces the cost associated with using an LLM model on Amazon Bedrock, as costs are often based on the number of tokens processed by the model.
? Token Reduction Strategy:
? Why Option B is Correct:
? Why Other Options are Incorrect:

NEW QUESTION 87
A company is building an application that needs to generate synthetic data that is based on existing data.
Which type of model can the company use to meet this requirement?

A. Generative adversarial network (GAN)
B. XGBoost
C. Residual neural network
D. WaveNet

Answer: A

Explanation:
Generative adversarial networks (GANs) are a type of deep learning model used for generating synthetic data based on existing datasets. GANs consist of two neural networks (a generator and a discriminator) that work together to create realistic data.
? Option A (Correct): "Generative adversarial network (GAN)": This is the correct
answer because GANs are specifically designed for generating synthetic data that closely resembles the real data they are trained on.
? Option B: "XGBoost" is a gradient boosting algorithm for classification and
regression tasks, not for generating synthetic data.
? Option C: "Residual neural network" is primarily used for improving the performance of deep networks, not for generating synthetic data.
? Option D: "WaveNet" is a model architecture designed for generating raw audio waveforms, not synthetic data in general.
AWS AI Practitioner References:
? GANs on AWS for Synthetic Data Generation: AWS supports the use of GANs for creating synthetic datasets, which can be crucial for applications like training machine learning models in environments where real data is scarce or sensitive.

NEW QUESTION 90
An AI practitioner is building a model to generate images of humans in various professions. The AI practitioner discovered that the input data is biased and that specific attributes affect the image generation and create bias in the model.
Which technique will solve the problem?

A. Data augmentation for imbalanced classes
B. Model monitoring for class distribution
C. Retrieval Augmented Generation (RAG)
D. Watermark detection for images

Answer: A

Explanation:
Data augmentation for imbalanced classes is the correct technique to address bias in input data affecting image generation.
? Data Augmentation for Imbalanced Classes:
? Why Option A is Correct:
? Why Other Options are Incorrect:

NEW QUESTION 95
A company makes forecasts each quarter to decide how to optimize operations to meet expected demand. The company uses ML models to make these forecasts.
An AI practitioner is writing a report about the trained ML models to provide transparency and explainability to company stakeholders.
What should the AI practitioner include in the report to meet the transparency and explainability requirements?

A. Code for model training
B. Partial dependence plots (PDPs)
C. Sample data for training
D. Model convergence tables

Answer: B

Explanation:
Partial dependence plots (PDPs) are visual tools used to show the relationship between a feature (or a set of features) in the data and the predicted outcome of a machine learning model. They are highly effective for providing transparency and explainability of the model's behavior to stakeholders by illustrating how different input variables impact the model's predictions.
? Option B (Correct): "Partial dependence plots (PDPs)": This is the correct answer because PDPs help to interpret how the model's predictions change with varying values of input features, providing stakeholders with a clearer understanding of the model's decision-making process.
? Option A: "Code for model training" is incorrect because providing the raw code for model training may not offer transparency or explainability to non-technical stakeholders.
? Option C: "Sample data for training" is incorrect as sample data alone does not explain how the model works or its decision-making process.
? Option D: "Model convergence tables" is incorrect. While convergence tables can show the training process, they do not provide insights into how input features affect the model's predictions.
AWS AI Practitioner References:
? Explainability in AWS Machine Learning: AWS provides various tools for model explainability, such as Amazon SageMaker Clarify, which includes PDPs to help explain the impact of different features on the model??s predictions.

NEW QUESTION 100
A company is training a foundation model (FM). The company wants to increase the accuracy of the model up to a specific acceptance level.
Which solution will meet these requirements?

A. Decrease the batch size.
B. Increase the epochs.
C. Decrease the epochs.
D. Increase the temperature parameter.

Answer: B

Explanation:
Increasing the number of epochs during model training allows the model to learn from the data over more iterations, potentially improving its accuracy up to a certain point. This is a common practice when attempting to reach a specific level of accuracy.
? Option B (Correct): "Increase the epochs": This is the correct answer because
increasing epochs allows the model to learn more from the data, which can lead to higher accuracy.
? Option A: "Decrease the batch size" is incorrect as it mainly affects training speed
and may lead to overfitting but does not directly relate to achieving a specific accuracy level.
? Option C: "Decrease the epochs" is incorrect as it would reduce the training time,
possibly preventing the model from reaching the desired accuracy.
? Option D: "Increase the temperature parameter" is incorrect because temperature affects the randomness of predictions, not model accuracy.
AWS AI Practitioner References:
? Model Training Best Practices on AWS: AWS suggests adjusting training parameters, like the number of epochs, to improve model performance.

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

Answer: A

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

NEW QUESTION 108
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