AIF-C01合格対策 & AIF-C01模擬試験最新版

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>> AIF-C01合格対策 <<

AIF-C01試験の準備方法｜一番優秀なAIF-C01合格対策試験｜ユニークなAWS Certified AI Practitioner模擬試験最新版

IT業界の中でたくさんの野心的な専門家がいって、IT業界の中でより一層頂上まで一歩更に近く立ちたくてAmazonのAIF-C01試験に参加して認可を得たくて、Amazon のAIF-C01試験が難度の高いので合格率も比較的低いです。AmazonのAIF-C01試験を申し込むのは賢明な選択で今のは競争の激しいIT業界では、絶えず自分を高めるべきです。しかし多くの選択肢があるので君はきっと悩んでいましょう。

Amazon AIF-C01 認定試験の出題範囲:

トピック	出題範囲
トピック 1	• 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.
トピック 2	• 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.

トピック 3	• 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.
トピック 4	• 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.
トピック 5	• 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.

Amazon AWS Certified AI Practitioner 認定 AIF-C01 試験問題 (Q215-Q220):

質問 # 215
A company wants to build a lead prioritization application for its employees to contact potential customers.
The application must give employees the ability to view and adjust the weights assigned to different variables in the model based on domain knowledge and expertise.
Which ML model type meets these requirements?

- A. Logistic regression model
- B. K-nearest neighbors (k-NN) model
- C. Deep learning model built on principal components
- D. Neural network

正解：A

解説：
The company needs an ML model for a lead prioritization application where employees can view and adjust the weights assigned to different variables based on domain knowledge. Logistic regression is a linear model that assigns interpretable weights to input features, making it easy for users to understand and modify these weights. This interpretability and adjustability make it suitable for the requirements.
Exact Extract from AWS AI Documents:
From the AWS AI Practitioner Learning Path:
"Logistic regression is a supervised learning algorithm used for classification tasks. It is highly interpretable, as it assigns weights to each feature, allowing users to understand and adjust the importance of different variables based on domain expertise." (Source: AWS AI Practitioner Learning Path, Module on Machine Learning Algorithms) Detailed Explanation:
* Option A: Logistic regression modelThis is the correct answer. Logistic regression provides interpretable coefficients (weights) for each feature, enabling employees to view and adjust them based on domain knowledge, meeting the application's requirements.
* Option B: Deep learning model built on principal componentsDeep learning models, even when using principal components, are complex and lack interpretability. The weights in such models are not easily adjustable by users, making this option unsuitable.
* Option C: K-nearest neighbors (k-NN) modelk-NN is a non-parametric model that does not assign explicit weights to features. It relieson distance metrics, which are not easily adjustable based on domain knowledge, so it does not meet the requirements.
* Option D: Neural networkNeural networks are highly complex and lack interpretability, as their weights are not directly tied to input features in a human-understandable way. Adjusting weights based on domain knowledge is impractical, making this option incorrect.
References:
AWS AI Practitioner Learning Path: Module on Machine Learning Algorithms Amazon SageMaker Developer Guide: Logistic Regression (https://docs.aws.amazon.com/sagemaker/latest/dg
/algos.html)
AWS Documentation: Interpretable Machine Learning Models (https://aws.amazon.com/machine-learning/)

質問 # 216
A company wants to build a lead prioritization application for its employees to contact potential customers. The application must give

employees the ability to view and adjust the weights assigned to different variables in the model based on domain knowledge and expertise.
Which ML model type meets these requirements?

- A. K-nearest neighbors (k-NN) model
- B. Logistic regression model
- C. Neural network
- D. Deep learning model built on principal components

正解：D

質問 # 217
A hospital is developing an AI system to assist doctors in diagnosing diseases based on patient records and medical images. To comply with regulations, the sensitive patient data must not leave the country the data is located in.

- A. Data discoverability
- B. Data residency
- C. Data enrichment
- D. Data quality

正解：B

解説：
The correct answer is A - Data residency. AWS defines data residency as ensuring that regulated or sensitive data-such as patient medical records under healthcare laws-remains physically stored and processed within specific national or regional boundaries. This aligns with regulatory frameworks such as HIPAA, GDPR, and country-specific health data protection acts. AWS allows customers to deploy all ML workloads, including Amazon SageMaker, Amazon Bedrock, and Amazon S3, within a chosen AWS Region, ensuring no cross- border data movement unless explicitly configured. Data quality (B) refers to accuracy and consistency, discoverability (C) relates to cataloging, and enrichment (D) refers to enhancing datasets. None of these address the compliance requirement to prevent data from leaving the country. Data residency is a core component of AWS's Shared Responsibility Model and foundational for healthcare AI compliance.
Referenced AWS Documentation:
* AWS Data Privacy Whitepaper - Data Residency Controls
* AWS Compliance Programs - Regional Data Handling Requirements

質問 # 218
An airline company wants to build a conversational AI assistant to answer customer questions about flight schedules, booking, and payments. The company wants to use large language models (LLMs) and a knowledge base to create a text-based chatbot interface.
Which solution will meet these requirements with the LEAST development effort?

- A. Train models on Amazon SageMaker Autopilot.
- B. Create a Python application by using Amazon Q Developer.
- C. Develop a Retrieval Augmented Generation (RAG) agent by using Amazon Bedrock.
- D. Fine-tune models on Amazon SageMaker Jumpstart.

正解：C

解説：
The airline company aims to build a conversational AI assistant using large language models (LLMs) and a knowledge base to create a text-based chatbot with minimal development effort. Retrieval Augmented Generation (RAG) on Amazon Bedrock is an ideal solution because it combines LLMs with a knowledge base to provide accurate, contextually relevant responses without requiring extensive model training or custom development. RAG retrieves relevant information from a knowledge base and uses an LLM to generate responses, simplifying the development process.
Exact Extract from AWS AI Documents:
From the AWS Bedrock User Guide:
"Retrieval Augmented Generation (RAG) in Amazon Bedrock enables developers to build conversational AI applications by combining foundation models with external knowledge bases. This approach minimizes development effort by leveraging pre-trained models and integrating them with data sources, such as FAQs or databases, to provide accurate and contextually relevant

responses." (Source: AWS Bedrock User Guide, Retrieval Augmented Generation) Detailed Explanation:
Option A: Train models on Amazon SageMaker Autopilot.SageMaker Autopilot is designed for automated machine learning (AutoML) tasks like classification or regression, not for building conversational AI with LLMs and knowledge bases. It requires significant data preparation and is not optimized for chatbot development, making it less suitable.
Option B: Develop a Retrieval Augmented Generation (RAG) agent by using Amazon Bedrock.This is the correct answer. RAG on Amazon Bedrock allows the company to use pre-trained LLMs and integrate them with a knowledge base (e.g., flight schedules or FAQs) to build a chatbot with minimal effort. It avoids the need for extensive training or coding, aligning with the requirement for least development effort.
Option C: Create a Python application by using Amazon Q Developer.While Amazon Q Developer can assist with code generation, building a chatbot from scratch in Python requires significant development effort, including integrating LLMs and a knowledge base manually, which is more complex than using RAG on Bedrock.
Option D: Fine-tune models on Amazon SageMaker Jumpstart.Fine-tuning models on SageMaker Jumpstart requires preparing training data and customizing LLMs, which involves more effort than using a pre-built RAG solution on Bedrock. This option is not the least effort-intensive.
References:
AWS Bedrock User Guide: Retrieval Augmented Generation (https://docs.aws.amazon.com/bedrock/latest /userguide/rag.html)
AWS AI Practitioner Learning Path: Module on Generative AI and Conversational AI Amazon Bedrock Developer Guide: Building Conversational AI (https://aws.amazon.com/bedrock/)

質問 # 219
A research group wants to test different generative AI models to create research papers. The research group has defined a prompt and needs a method to assess the models' output. The research group wants to use a team of scientists to perform the output assessments.
Which solution will meet these requirements?

- A. Use sentiment analysis on Amazon Comprehend.
- B. Use automatic evaluation on Amazon Personalize.
- C. Use model evaluation on Amazon Bedrock.
- D. Use content moderation on Amazon Rekognition.

正解：C

解説：
The correct answer is C because Amazon Bedrock's model evaluation feature allows users to compare outputs from different foundation models using human evaluation or automatic metrics. It enables the creation of structured evaluations where human reviewers (in this case, scientists) can assess model responses based on custom criteria like relevance, coherence, or accuracy.
From AWS documentation:
"Amazon Bedrock provides model evaluation capabilities that support both automatic and human evaluation. You can define custom evaluation prompts and collect assessments from reviewers to compare foundation model outputs for tasks such as summarization, text generation, and more." This solution is ideal for research workflows requiring domain experts to provide feedback on LLM-generated content.
Explanation of other options:
A . Amazon Personalize is used for building recommendation systems, not for evaluating model output.
B . Amazon Rekognition is used for analyzing images and videos (e.g., moderation, facial recognition), not textual output.
D . Amazon Comprehend provides NLP services like sentiment analysis, but sentiment is not sufficient for full quality evaluation of research paper generation.
Referenced AWS AI/ML Documents and Study Guides:
Amazon Bedrock Developer Guide - Model Evaluation Overview
AWS Generative AI Best Practices
AWS ML Specialty Study Guide - Evaluation and Feedback Loops in LLMs

質問 # 220
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