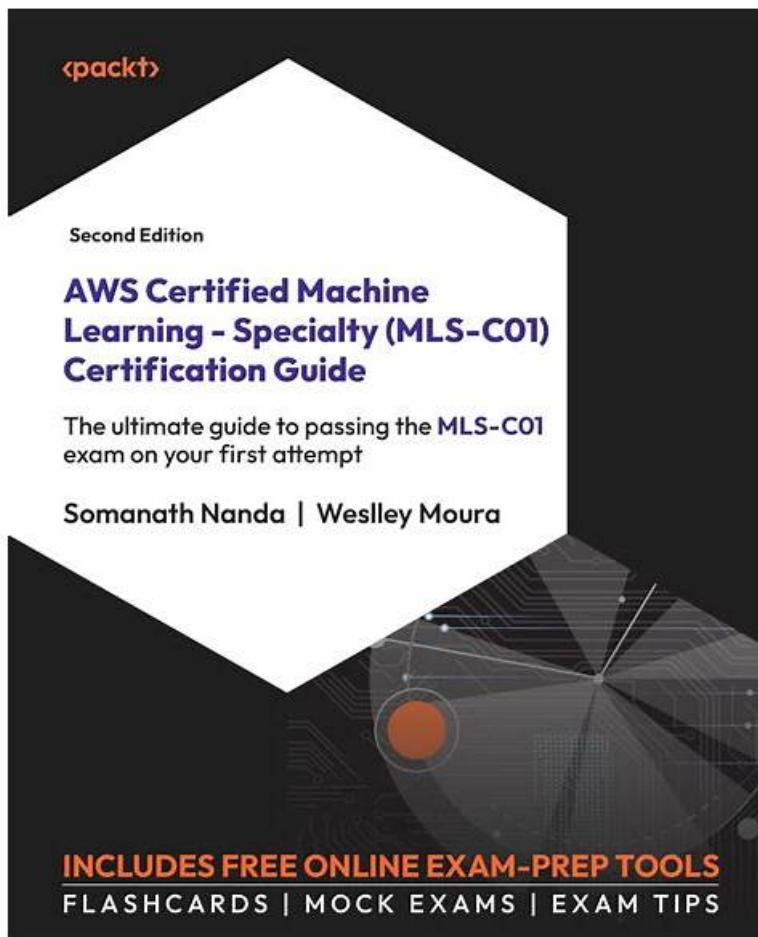


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Passing the AWS Certified Machine Learning - Specialty exam is a significant achievement for professionals in the machine learning field. It demonstrates a high level of expertise in applying machine learning concepts and techniques to real-world problems using AWS services. AWS Certified Machine Learning - Specialty certification can also help individuals advance their careers and increase their earning potential. Overall, the AWS Certified Machine Learning - Specialty exam is an excellent opportunity for professionals to showcase their skills and knowledge in this rapidly growing field.

Amazon MLS-C01 exam covers a variety of topics related to machine learning on AWS. These topics include data engineering, exploratory data analysis, feature engineering, model selection and training, optimization techniques, and deployment and operationalization of machine learning models. AWS-Certified-Machine-Learning-Specialty Exam also covers important AWS services such as Amazon SageMaker, Amazon S3, Amazon EC2, and Amazon EMR.

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Amazon MLS-C01 certification exam is an excellent way to demonstrate your expertise in machine learning on the AWS platform. It is designed for professionals who have experience in designing and implementing machine learning solutions on AWS and can showcase their skills and knowledge in this area. Achieving this certification can open up various career opportunities and help you advance your career in the field of machine learning.

Amazon AWS Certified Machine Learning - Specialty Sample Questions (Q248-Q253):

NEW QUESTION # 248

A large company has developed a B1 application that generates reports and dashboards using data collected from various operational metrics. The company wants to provide executives with an enhanced experience so they can use natural language to get data from the reports. The company wants the executives to be able to ask questions using written and spoken interfaces. Which combination of services can be used to build this conversational interface? (Select THREE)

- A. Amazon Lex
- B. Amazon Transcribe
- C. Amazon Poly
- D. Amazon Connect
- E. Alexa for Business
- F. Amazon Comprehend

Answer: A,B,F

Explanation:

To build a conversational interface that can use natural language to get data from the reports, the company can use a combination of services that can handle both written and spoken inputs, understand the user's intent and query, and extract the relevant information from the reports. The services that can be used for this purpose are:

Amazon Lex: A service for building conversational interfaces into any application using voice and text. Amazon Lex can create chatbots that can interact with users using natural language, and integrate with other AWS services such as Amazon Connect, Amazon Comprehend, and Amazon Transcribe. Amazon Lex can also use lambda functions to implement the business logic and fulfill the user's requests.

Amazon Comprehend: A service for natural language processing and text analytics. Amazon Comprehend can analyze text and speech inputs and extract insights such as entities, key phrases, sentiment, syntax, and topics. Amazon Comprehend can also use custom classifiers and entity recognizers to identify specific terms and concepts that are relevant to the domain of the reports.

Amazon Transcribe: A service for speech-to-text conversion. Amazon Transcribe can transcribe audio inputs into text outputs, and add punctuation and formatting. Amazon Transcribe can also use custom vocabularies and language models to improve the accuracy and quality of the transcription for the specific domain of the reports.

Therefore, the company can use the following architecture to build the conversational interface:

Use Amazon Lex to create a chatbot that can accept both written and spoken inputs from the executives. The chatbot can use intents, utterances, and slots to capture the user's query and parameters, such as the report name, date, metric, or filter.

Use Amazon Transcribe to convert the spoken inputs into text outputs, and pass them to Amazon Lex. Amazon Transcribe can use a custom vocabulary and language model to recognize the terms and concepts related to the reports.

Use Amazon Comprehend to analyze the text inputs and outputs, and extract the relevant information from the reports. Amazon Comprehend can use a custom classifier and entity recognizer to identify the report name, date, metric, or filter from the user's query, and the corresponding data from the reports.

Use a lambda function to implement the business logic and fulfillment of the user's query, such as retrieving the data from the reports, performing calculations or aggregations, and formatting the response. The lambda function can also handle errors and validations, and provide feedback to the user.

Use Amazon Lex to return the response to the user, either in text or speech format, depending on the user's preference.

References:

What Is Amazon Lex?

What Is Amazon Comprehend?

What Is Amazon Transcribe?

NEW QUESTION # 249

Machine Learning Specialist is building a model to predict future employment rates based on a wide range of economic factors. While exploring the data, the Specialist notices that the magnitude of the input features vary greatly. The Specialist does not want variables with a larger magnitude to dominate the model.

What should the Specialist do to prepare the data for model training?

- A. Apply the orthogonal sparse bigram (OSB) transformation to apply a fixed-size sliding window to generate new features of a similar magnitude.
- B. **Apply normalization to ensure each field will have a mean of 0 and a variance of 1 to remove any significant magnitude.**
- C. Apply quantile binning to group the data into categorical bins to keep any relationships in the data by replacing the magnitude with distribution.
- D. Apply the Cartesian product transformation to create new combinations of fields that are independent of the magnitude.

Answer: B

Explanation:

Explanation/Reference: <https://docs.aws.amazon.com/machine-learning/latest/dg/data-transformations-reference.html>

NEW QUESTION # 250

A company is setting up an Amazon SageMaker environment. The corporate data security policy does not allow communication over the internet.

How can the company enable the Amazon SageMaker service without enabling direct internet access to Amazon SageMaker notebook instances?

- A. **Create Amazon SageMaker VPC interface endpoints within the corporate VPC.**
- B. Route Amazon SageMaker traffic through an on-premises network.
- C. Create VPC peering with Amazon VPC hosting Amazon SageMaker.
- D. Create a NAT gateway within the corporate VPC.

Answer: A

Explanation:

To enable the Amazon SageMaker service without enabling direct internet access to Amazon SageMaker notebook instances, the company should create Amazon SageMaker VPC interface endpoints within the corporate VPC. A VPC interface endpoint is a gateway that enables private connections between the VPC and supported AWS services without requiring an internet gateway, a NAT device, a VPN connection, or an AWS Direct Connect connection. The instances in the VPC do not need to connect to the public internet in order to communicate with the Amazon SageMaker service. The VPC interface endpoint connects the VPC directly to the Amazon SageMaker service using AWS PrivateLink, which ensures that the traffic between the VPC and the service does not leave the AWS network¹.

References:

1: Connect to SageMaker Within your VPC - Amazon SageMaker

NEW QUESTION # 251

A Machine Learning Specialist is designing a system for improving sales for a company. The objective is to use the large amount of information the company has on users' behavior and product preferences to predict which products users would like based on the users' similarity to other users.

What should the Specialist do to meet this objective?

- A. **Build a collaborative filtering recommendation engine with Apache Spark ML on Amazon EMR.**
- B. Build a combinative filtering recommendation engine with Apache Spark ML on Amazon EMR.
- C. Build a content-based filtering recommendation engine with Apache Spark ML on Amazon EMR.
- D. Build a model-based filtering recommendation engine with Apache Spark ML on Amazon EMR.

Answer: A

Explanation:

A collaborative filtering recommendation engine is a type of machine learning system that can improve sales for a company by using the large amount of information the company has on users' behavior and product preferences to predict which products users would like based on the users' similarity to other users. A collaborative filtering recommendation engine works by finding the users who have similar ratings or preferences for the products, and then recommending the products that the similar users have liked but the target user has not seen or rated. A collaborative filtering recommendation engine can leverage the collective wisdom of the users and discover the hidden patterns and associations among the products and the users. A collaborative filtering recommendation engine can be implemented using Apache Spark ML on Amazon EMR, which are two services that can handle large-scale data processing and machine learning tasks. Apache Spark ML is a library that provides various tools and algorithms for machine learning, such as classification, regression, clustering, recommendation, etc. Apache Spark ML can run on Amazon EMR, which is a service that provides a managed cluster platform that simplifies running big data frameworks, such as Apache Spark, on AWS. Apache Spark ML on Amazon EMR can build a collaborative filtering recommendation engine using the Alternating Least Squares (ALS) algorithm, which is a matrix factorization technique that can learn the latent factors that represent the users and the products, and then use them to predict the ratings or preferences of the users for the products. Apache Spark ML on Amazon EMR can also support both explicit feedback, such as ratings or reviews, and implicit feedback, such as views or clicks, for building a collaborative filtering recommendation engine¹²

NEW QUESTION # 252

Which of the following metrics should a Machine Learning Specialist generally use to compare/evaluate machine learning classification models against each other?

- A. Mean absolute percentage error (MAPE)
- B. Misclassification rate
- C. **Area Under the ROC Curve (AUC)**
- D. Recall

Answer: C

NEW QUESTION # 253

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