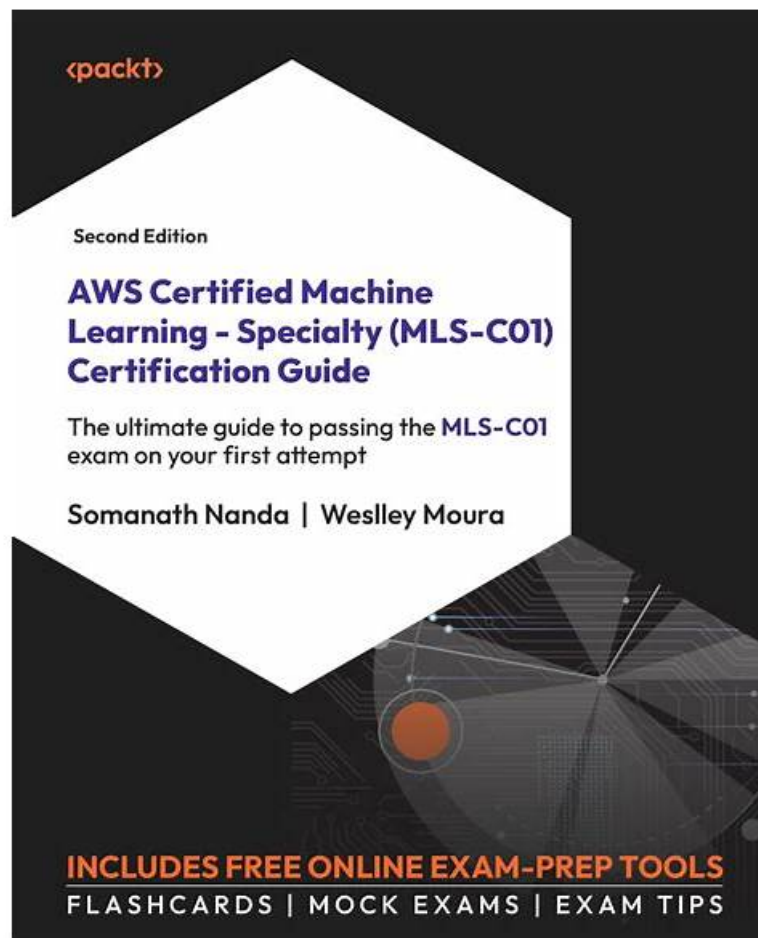


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Amazon AWS Certified Machine Learning - Specialty Sample Questions (Q149-Q154):

NEW QUESTION # 149

A Machine Learning Specialist is preparing data for training on Amazon SageMaker. The Specialist is transforming a pandas DataFrame into a numpy array, which appears to be negatively affecting the speed of the training. What should the Specialist do to optimize the data for training on SageMaker?

- **A. Use AWS Glue to compress the data into the Apache Parquet format**
- B. Use the SageMaker batch transform feature to transform the training data into a DataFrame
- C. Transform the dataset into the RecordIO protobuf format
- D. Use the SageMaker hyperparameter optimization feature to automatically optimize the data

Answer: A

NEW QUESTION # 150

A Machine Learning Specialist needs to be able to ingest streaming data and store it in Apache Parquet files for exploration and analysis. Which of the following services would both ingest and store this data in the correct format?

- **A. Amazon Kinesis Data Firehose**
- B. AWS DMS
- C. Amazon Kinesis Data Streams
- D. Amazon Kinesis Data Analytics

Answer: A

NEW QUESTION # 151

A Machine Learning Specialist must build out a process to query a dataset on Amazon S3 using Amazon Athena. The dataset contains more than 800,000 records stored as plaintext CSV files.

Each record contains 200 columns and is approximately 1.5 MB in size. Most queries will span 5 to 10 columns only.

How should the Machine Learning Specialist transform the dataset to minimize query runtime?

- A. Convert the records to GZIP CSV format.
- B. Convert the records to XML format.
- C. Convert the records to JSON format.
- **D. Convert the records to Apache Parquet format.**

Answer: D

Explanation:

Using compressions will reduce the amount of data scanned by Amazon Athena, and also reduce your S3 bucket storage. It's a Win-Win for your AWS bill. Supported formats: GZIP, LZ4, SNAPPY (Parquet) and ZLIB.

<https://www.cloudforecast.io/blog/using-parquet-on-athena-to-save-money-on-aws/>

NEW QUESTION # 152

A Machine Learning Specialist is configuring automatic model tuning in Amazon SageMaker. When using the hyperparameter optimization feature, which of the following guidelines should be followed to improve optimization?

Choose the maximum number of hyperparameters supported by

- A. Use log-scaled hyperparameters to allow the hyperparameter space to be searched as quickly as possible
- B. Amazon SageMaker to search the largest number of combinations possible
- C. Execute only one hyperparameter tuning job at a time and improve tuning through successive rounds of experiments
- D. Specify a very large hyperparameter range to allow Amazon SageMaker to cover every possible value.

Answer: A

NEW QUESTION # 153

A retail company wants to update its customer support system. The company wants to implement automatic routing of customer claims to different queues to prioritize the claims by category.

Currently, an operator manually performs the category assignment and routing. After the operator classifies and routes the claim, the company stores the claim's record in a central database. The claim's record includes the claim's category.

The company has no data science team or experience in the field of machine learning (ML). The company's small development team needs a solution that requires no ML expertise.

Which solution meets these requirements?

- A. Use Amazon Textract to process the database and automatically detect two columns: claim_label and claim_text. Use Amazon Comprehend custom classification and the extracted information to train the custom classifier. Develop a service in the application to use the Amazon Comprehend API to process incoming claims, predict the labels, and route the claims to the appropriate queue.
- B. Export the database to a .csv file with two columns: claim_label and claim_text. Use the Amazon SageMaker Object2Vec algorithm and the .csv file to train a model. Use SageMaker to deploy the model to an inference endpoint. Develop a service in the application to use the inference endpoint to process incoming claims, predict the labels, and route the claims to the appropriate queue.
- C. Export the database to a .csv file with two columns: claim_label and claim_text. Use Amazon Comprehend custom classification and the .csv file to train the custom classifier. Develop a service in the application to use the Amazon Comprehend API to process incoming claims, predict the labels, and route the claims to the appropriate queue.
- D. Export the database to a .csv file with one column: claim_text. Use the Amazon SageMaker Latent Dirichlet Allocation (LDA) algorithm and the .csv file to train a model. Use the LDA algorithm to detect labels automatically. Use SageMaker to deploy the model to an inference endpoint. Develop a service in the application to use the inference endpoint to process incoming claims, predict the labels, and route the claims to the appropriate queue.

Answer: C

Explanation:

Amazon Comprehend is a natural language processing (NLP) service that can analyze text and extract insights such as sentiment, entities, topics, and language. Amazon Comprehend also provides custom classification and custom entity recognition features that allow users to train their own models using their own data and labels. For the scenario of routing customer claims to different queues based on categories, Amazon Comprehend custom classification is a suitable solution. The custom classifier can be trained using a .csv file that contains the claim text and the claim label as columns. The custom classifier can then be used to process incoming claims and predict the labels using the Amazon Comprehend API. The predicted labels can be used to route the claims to the appropriate queue. This solution does not require any machine learning expertise or model deployment, and it can be easily integrated with the existing application.

The other options are not suitable because:

Option A: Amazon SageMaker Object2Vec is an algorithm that can learn embeddings of objects such as words, sentences, or documents. It can be used for tasks such as text classification, sentiment analysis, or recommendation systems. However, using this algorithm requires machine learning expertise and model deployment using SageMaker, which are not available for the company.

Option B: Amazon SageMaker Latent Dirichlet Allocation (LDA) is an algorithm that can discover the topics or themes in a collection of documents. It can be used for tasks such as topic modeling, document clustering, or text summarization. However, using this algorithm requires machine learning expertise and model deployment using SageMaker, which are not available for the company. Moreover, LDA does not provide labels for the topics, but rather a distribution of words for each topic, which may not match the existing categories of the claims.

Option C: Amazon Textract is a service that can extract text and data from scanned documents or images. It can be used for tasks such as document analysis, data extraction, or form processing. However, using this service is unnecessary and inefficient for the scenario, since the company already has the claim text and label in a database. Moreover, Amazon Textract does not provide custom classification features, so it cannot be used to train a custom classifier using the existing data and labels.

References:

Amazon Comprehend Custom Classification

Amazon SageMaker Object2Vec

Amazon SageMaker Latent Dirichlet Allocation

NEW QUESTION # 154

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