

Use Real Amazon AWS-Certified-Machine-Learning-Specialty PDF Questions [2026] - 100% Guaranteed Success



1) A machine learning team has several large CSV datasets in Amazon S3. Historically, models built with the Amazon SageMaker Linear Learner algorithm have taken hours to train on similar-sized datasets. The team's leaders need to accelerate the training process.

What can a machine learning specialist do to address this concern?

- A) Use Amazon SageMaker Pipe mode.
- B) Use Amazon Machine Learning to train the models.
- C) Use Amazon Kinesis to stream the data to Amazon SageMaker.
- D) Use AWS Glue to transform the CSV dataset to the JSON format.

2) A term frequency-inverse document frequency (tf-idf) matrix using both unigrams and bigrams is built from a text corpus consisting of the following two sentences:

1. Please call the number below.
2. Please do not call us.

What are the dimensions of the tf-idf matrix?

- A) (2, 16)
- B) (2, 8)
- C) (2, 10)
- D) (8, 10)

3) A company is setting up a system to manage all of the datasets it stores in Amazon S3. The company would like to automate running transformation jobs on the data and maintaining a catalog of the metadata concerning the datasets. The solution should require the least amount of setup and maintenance.

Which solution will allow the company to achieve its goals?

- A) Create an Amazon EMR cluster with Apache Hive installed. Then, create a Hive metastore and a script to run transformation jobs on a schedule.
- B) Create an AWS Glue crawler to populate the AWS Glue Data Catalog. Then, author an AWS Glue ETL job, and set up a schedule for data transformation jobs.
- C) Create an Amazon EMR cluster with Apache Spark installed. Then, create an Apache Hive metastore and a script to run transformation jobs on a schedule.
- D) Create an AWS Data Pipeline that transforms the data. Then, create an Apache Hive metastore and a script to run transformation jobs on a schedule.

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To be eligible for the AWS Certified Machine Learning - Specialty certification exam, candidates must have a minimum of one year of experience in developing and maintaining machine learning models on the AWS platform. They must also have a strong understanding of AWS services, such as Amazon SageMaker, Amazon EC2, Amazon S3, and AWS Lambda.

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Amazon AWS Certified Machine Learning - Specialty Sample Questions (Q123-Q128):

NEW QUESTION # 123

A Machine Learning Specialist has completed a proof of concept for a company using a small data sample and now the Specialist is ready to implement an end-to-end solution in AWS using Amazon SageMaker. The historical training data is stored in Amazon RDS. Which approach should the Specialist use for training a model using that data?

- A. Write a direct connection to the SQL database within the notebook and pull data in.
- B. Push the data from Microsoft SQL Server to Amazon S3 using an AWS Data Pipeline and provide the S3 location within the notebook.
- C. Move the data to Amazon ElastiCache using AWS DMS and set up a connection within the notebook to pull data in for fast access.
- D. Move the data to Amazon DynamoDB and set up a connection to DynamoDB within the notebook to pull data in.

Answer: C

NEW QUESTION # 124

A Machine Learning Specialist has created a deep learning neural network model that performs well on the training data but performs poorly on the test data.

Which of the following methods should the Specialist consider using to correct this? (Select THREE.)

- A. Decrease feature combinations.
- B. Increase dropout.
- C. Increase feature combinations.
- D. Decrease dropout.
- E. Increase regularization.
- F. Decrease regularization.

Answer: B,C,F

NEW QUESTION # 125

When submitting Amazon SageMaker training jobs using one of the built-in algorithms, which common parameters MUST be specified? (Select THREE.)

- A. The training channel identifying the location of training data on an Amazon S3 bucket.
- B. The Amazon EC2 instance class specifying whether training will be run using CPU or GPU.
- C. Hyperparameters in a JSON array as documented for the algorithm used.
- D. The output path specifying where on an Amazon S3 bucket the trained model will persist.
- E. The IAM role that Amazon SageMaker can assume to perform tasks on behalf of the users.
- F. The validation channel identifying the location of validation data on an Amazon S3 bucket.

Answer: A,E,F

NEW QUESTION # 126

A machine learning (ML) specialist needs to extract embedding vectors from a text series. The goal is to provide a ready-to-ingest feature space for a data scientist to develop downstream ML predictive models. The text consists of curated sentences in English. Many sentences use similar words but in different contexts. There are questions and answers among the sentences, and the embedding space must differentiate between them.

Which options can produce the required embedding vectors that capture word context and sequential QA information? (Choose two.)

- A. Amazon SageMaker Object2Vec algorithm
- B. Amazon SageMaker BlazingText algorithm in continuous bag-of-words (CBOW) mode
- **C. Amazon SageMaker BlazingText algorithm in Skip-gram mode**
- D. Amazon SageMaker seq2seq algorithm
- **E. Combination of the Amazon SageMaker BlazingText algorithm in Batch Skip-gram mode with a custom recurrent neural network (RNN)**

Answer: C,E

Explanation:

To capture word context and sequential QA information, the embedding vectors need to consider both the order and the meaning of the words in the text.

Option B, Amazon SageMaker BlazingText algorithm in Skip-gram mode, is a valid option because it can learn word embeddings that capture the semantic similarity and syntactic relations between words based on their co-occurrence in a window of words. Skip-gram mode can also handle rare words better than continuous bag-of-words (CBOW) mode¹.

Option E, combination of the Amazon SageMaker BlazingText algorithm in Batch Skip-gram mode with a custom recurrent neural network (RNN), is another valid option because it can leverage the advantages of Skip-gram mode and also use an RNN to model the sequential nature of the text. An RNN can capture the temporal dependencies and long-term dependencies between words, which are important for QA tasks².

Option A, Amazon SageMaker seq2seq algorithm, is not a valid option because it is designed for sequence-to-sequence tasks such as machine translation, summarization, or chatbots. It does not produce embedding vectors for text series, but rather generates an output sequence given an input sequence³.

Option C, Amazon SageMaker Object2Vec algorithm, is not a valid option because it is designed for learning embeddings for pairs of objects, such as text-image, text-text, or image-image. It does not produce embedding vectors for text series, but rather learns a similarity function between pairs of objects⁴.

Option D, Amazon SageMaker BlazingText algorithm in continuous bag-of-words (CBOW) mode, is not a valid option because it does not capture word context as well as Skip-gram mode. CBOW mode predicts a word given its surrounding words, while Skip-gram mode predicts the surrounding words given a word. CBOW mode is faster and more suitable for frequent words, but Skip-gram mode can learn more meaningful embeddings for rare words¹.

References:

- 1: Amazon SageMaker BlazingText
- 2: Recurrent Neural Networks (RNNs)
- 3: Amazon SageMaker Seq2Seq
- 4: Amazon SageMaker Object2Vec

NEW QUESTION # 127

A Machine Learning Specialist is developing recommendation engine for a photography blog Given a picture, the recommendation engine should show a picture that captures similar objects The Specialist would like to create a numerical representation feature to perform nearest-neighbor searches What actions would allow the Specialist to get relevant numerical representations?

- A. Reduce image resolution and use reduced resolution pixel values as features
- B. Use Amazon Mechanical Turk to label image content and create a one-hot representation indicating the presence of specific labels
- **C. Run images through a neural network pre-trained on ImageNet, and collect the feature vectors from the penultimate layer**
- D. Average colors by channel to obtain three-dimensional representations of images.

Answer: C

Explanation:

A neural network pre-trained on ImageNet is a deep learning model that has been trained on a large dataset of images containing 1000 classes of objects. The model can learn to extract high-level features from the images that capture the semantic and visual information of the objects. The penultimate layer of the model is the layer before the final output layer, and it contains a feature vector that represents the input image in a lower-dimensional space. By running images through a pre-trained neural network and collecting the feature vectors from the penultimate layer, the Specialist can obtain relevant numerical representations that can be used for nearest-neighbor searches. The feature vectors can capture the similarity between images based on the presence and appearance of similar objects, and they can be compared using distance metrics such as Euclidean distance or cosine similarity. This approach can enable the recommendation engine to show a picture that captures similar objects to a given picture.

References:

ImageNet - Wikipedia

NEW QUESTION # 128

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