

# How to Prepare For Amazon AWS-Certified-Machine-Learning-Specialty Certification Exam?



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## Amazon AWS Certified Machine Learning - Specialty Sample Questions (Q157-Q162):

### NEW QUESTION # 157

A web-based company wants to improve its conversion rate on its landing page. Using a large historical dataset of customer visits, the company has repeatedly trained a multi-class deep learning network algorithm on Amazon SageMaker. However, there is an overfitting problem: training data shows 90% accuracy in predictions, while test data shows 70% accuracy only. The company needs to boost the generalization of its model before deploying it into production to maximize conversions of visits to purchases. Which action is recommended to provide the HIGHEST accuracy model for the company's test and validation data?

- A. Increase the randomization of training data in the mini-batches used in training.
- **B. Apply L1 or L2 regularization and dropouts to the training.**
- C. Reduce the number of layers and units (or neurons) from the deep learning network.
- D. Allocate a higher proportion of the overall data to the training dataset.

**Answer: B**

Explanation:

Explanation

Regularization and dropouts are techniques that can help reduce overfitting in deep learning models.

Overfitting occurs when the model learns too much from the training data and fails to generalize well to new data. Regularization adds a penalty term to the loss function that penalizes the model for having large or complex weights. This prevents the model from memorizing the noise or irrelevant features in the training data. L1 and L2 are two types of regularization that differ in how they calculate the penalty term. L1 regularization uses the absolute value of the weights, while L2 regularization uses the square of the weights.

Dropouts are another technique that randomly drops out some units or neurons from the network during training. This creates a thinner network that is less prone to overfitting. Dropouts also act as a form of ensemble learning, where multiple sub-models are combined to produce a better prediction. By applying regularization and dropouts to the training, the web-based company can improve the generalization and accuracy of its deep learning model on the test and validation data. References:

Regularization: A video that explains the concept and benefits of regularization in deep learning.

Dropout: A video that demonstrates how dropout works and why it helps reduce overfitting.

### NEW QUESTION # 158

A data scientist stores financial datasets in Amazon S3. The data scientist uses Amazon Athena to query the datasets by using SQL. The data scientist uses Amazon SageMaker to deploy a machine learning (ML) model. The data scientist wants to obtain inferences from the model at the SageMaker endpoint. However, when the data scientist attempts to invoke the SageMaker endpoint, the data scientist receives SQL statement failures. The data scientist's IAM user is currently unable to invoke the SageMaker endpoint. Which combination of actions will give the data scientist's IAM user the ability to invoke the SageMaker endpoint? (Select THREE.)

- A. Include a policy statement for the data scientist's IAM user that allows the IAM user to perform the `sagemakerGetRecord` action.
- **B. Include the SQL statement "USING EXTERNAL FUNCTION ml\_function\_name" in the Athena SQL query.**
- C. Attach the `AmazonAthenaFullAccess` AWS managed policy to the user identity.
- D. Perform a user remapping in SageMaker to map the IAM user to another IAM user that is on the hosted endpoint.
- **E. Include a policy statement for the data scientist's IAM user that allows the IAM user to perform the `sagemaker:InvokeEndpoint` action.**
- **F. Include an inline policy for the data scientist's IAM user that allows SageMaker to read S3 objects.**

**Answer: B,E,F**

Explanation:

Explanation

The correct combination of actions to enable the data scientist's IAM user to invoke the SageMaker endpoint is B, C, and E, because they ensure that the IAM user has the necessary permissions, access, and syntax to query the ML model from Athena. These actions have the following benefits:

B: Including a policy statement for the IAM user that allows the `sagemaker:InvokeEndpoint` action grants the IAM user the permission to call the SageMaker Runtime `InvokeEndpoint` API, which is used to get inferences from the model hosted at the endpoint1.

C: Including an inline policy for the IAM user that allows SageMaker to read S3 objects enables the IAM user to access the data stored in S3, which is the source of the Athena queries2.

E: Including the SQL statement "USING EXTERNAL FUNCTION ml\_function\_name" in the Athena SQL query allows the IAM user to invoke the ML model as an external function from Athena, which is a feature that enables querying ML models from SQL statements<sup>3</sup>.

The other options are not correct or necessary, because they have the following drawbacks:

A: Attaching the AmazonAthenaFullAccess AWS managed policy to the user identity is not sufficient, because it does not grant the IAM user the permission to invoke the SageMaker endpoint, which is required to query the ML model<sup>4</sup>.

D: Including a policy statement for the IAM user that allows the IAM user to perform the sagemaker:GetRecord action is not relevant, because this action is used to retrieve a single record from a feature group, which is not the case in this scenario<sup>5</sup>.

F: Performing a user remapping in SageMaker to map the IAM user to another IAM user that is on the hosted endpoint is not applicable, because this feature is only available for multi-model endpoints, which are not used in this scenario.

References:

1: InvokeEndpoint - Amazon SageMaker

2: Querying Data in Amazon S3 from Amazon Athena - Amazon Athena

3: Querying machine learning models from Amazon Athena using Amazon SageMaker | AWS Machine Learning Blog

4: AmazonAthenaFullAccess - AWS Identity and Access Management

5: GetRecord - Amazon SageMaker Feature Store Runtime

6: [Invoke a Multi-Model Endpoint - Amazon SageMaker]

### NEW QUESTION # 159

A Data Scientist is developing a machine learning model to classify whether a financial transaction is fraudulent. The labeled data available for training consists of 100,000 non-fraudulent observations and 1,000 fraudulent observations.

The Data Scientist applies the XGBoost algorithm to the data, resulting in the following confusion matrix when the trained model is applied to a previously unseen validation dataset. The accuracy of the model is

99.1%, but the Data Scientist has been asked to reduce the number of false negatives.

Which combination of steps should the Data Scientist take to reduce the number of false positive predictions by the model? (Select TWO.)

- A. Increase the XGBoost scale\_pos\_weight parameter to adjust the balance of positive and negative weights.
- B. Increase the XGBoost max\_depth parameter because the model is currently underfitting the data.
- C. Change the XGBoost eval\_metric parameter to optimize based on rmse instead of error.
- D. Change the XGBoost eval\_metric parameter to optimize based on AUC instead of error.
- E. Decrease the XGBoost max\_depth parameter because the model is currently overfitting the data.

**Answer: A,D**

Explanation:

Explanation

The XGBoost algorithm is a popular machine learning technique for classification problems. It is based on the idea of boosting, which is to combine many weak learners (decision trees) into a strong learner (ensemble model).

The XGBoost algorithm can handle imbalanced data by using the scale\_pos\_weight parameter, which controls the balance of positive and negative weights in the objective function. A typical value to consider is the ratio of negative cases to positive cases in the data. By increasing this parameter, the algorithm will pay more attention to the minority class (positive) and reduce the number of false negatives.

The XGBoost algorithm can also use different evaluation metrics to optimize the model performance.

The default metric is error, which is the misclassification rate. However, this metric can be misleading for imbalanced data, as it does not account for the different costs of false positives and false negatives.

A better metric to use is AUC, which is the area under the receiver operating characteristic (ROC) curve. The ROC curve plots the true positive rate against the false positive rate for different threshold values. The AUC measures how well the model can distinguish between the two classes, regardless of the threshold. By changing the eval\_metric parameter to AUC, the algorithm will try to maximize the AUC score and reduce the number of false negatives.

Therefore, the combination of steps that should be taken to reduce the number of false negatives are to increase the scale\_pos\_weight parameter and change the eval\_metric parameter to AUC.

References:

XGBoost Parameters

XGBoost for Imbalanced Classification

### NEW QUESTION # 160

A Machine Learning Specialist is required to build a supervised image-recognition model to identify a cat. The ML Specialist

performs some tests and records the following results for a neural network-based image classifier:

Total number of images available = 1,000 Test set images = 100 (constant test set) The ML Specialist notices that, in over 75% of the misclassified images, the cats were held upside down by their owners.

Which techniques can be used by the ML Specialist to improve this specific test error?

- A. Increase the training data by adding variation in rotation for training images.
- B. Increase the number of layers for the neural network.
- **C. Increase the number of epochs for model training.**
- D. Increase the dropout rate for the second-to-last layer.

**Answer: C**

#### NEW QUESTION # 161

A company ingests machine learning (ML) data from web advertising clicks into an Amazon S3 data lake.

Click data is added to an Amazon Kinesis data stream by using the Kinesis Producer Library (KPL). The data is loaded into the S3 data lake from the data stream by using an Amazon Kinesis Data Firehose delivery stream. As the data volume increases, an ML specialist notices that the rate of data ingested into Amazon S3 is relatively constant. There also is an increasing backlog of data for Kinesis Data Streams and Kinesis Data Firehose to ingest.

Which next step is MOST likely to improve the data ingestion rate into Amazon S3?

- A. Increase the number of S3 prefixes for the delivery stream to write to.
- B. Decrease the retention period for the data stream.
- **C. Increase the number of shards for the data stream.**
- D. Add more consumers using the Kinesis Client Library (KCL).

**Answer: C**

Explanation:

Explanation

The solution C is the most likely to improve the data ingestion rate into Amazon S3 because it increases the number of shards for the data stream. The number of shards determines the throughput capacity of the data stream, which affects the rate of data ingestion. Each shard can support up to 1 MB per second of data input and 2 MB per second of data output. By increasing the number of shards, the company can increase the data ingestion rate proportionally. The company can use the UpdateShardCount API operation to modify the number of shards in the data stream<sup>1</sup>.

The other options are not likely to improve the data ingestion rate into Amazon S3 because:

Option A: Increasing the number of S3 prefixes for the delivery stream to write to will not affect the data ingestion rate, as it only changes the way the data is organized in the S3 bucket. The number of S3 prefixes can help to optimize the performance of downstream applications that read the data from S3, but it does not impact the performance of Kinesis Data Firehose<sup>2</sup>.

Option B: Decreasing the retention period for the data stream will not affect the data ingestion rate, as it only changes the amount of time the data is stored in the data stream. The retention period can help to manage the data availability and durability, but it does not impact the throughput capacity of the data stream<sup>3</sup>.

Option D: Adding more consumers using the Kinesis Client Library (KCL) will not affect the data ingestion rate, as it only changes the way the data is processed by downstream applications. The consumers can help to scale the data processing and handle failures, but they do not impact the data ingestion into S3 by Kinesis Data Firehose<sup>4</sup>.

References:

1: Resharding - Amazon Kinesis Data Streams

2: Amazon S3 Prefixes - Amazon Kinesis Data Firehose

3: Data Retention - Amazon Kinesis Data Streams

4: Developing Consumers Using the Kinesis Client Library - Amazon Kinesis Data Streams

#### NEW QUESTION # 162

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