

MLS-C01 Prüfungsfrage - MLS-C01 Online Prüfung

200 Real Exam Question and Answers

AWS Certified Machine Learning - Specialty



MLS-C01



ShapingPixel

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>> MLS-C01 Prüfungsfrage <<

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Amazon AWS Certified Machine Learning - Specialty MLS-C01 Prüfungsfragen mit Lösungen (Q159-Q164):

159. Frage

An e-commerce company has used Amazon SageMaker to deploy a factorization machines (FM) model to suggest products for customers. The company's data science team has developed two new models by using the TensorFlow and PyTorch deep learning frameworks. The company needs to use A/B testing to evaluate the new models against the deployed model.

...required A/B testing setup is as follows:

* Send 70% of traffic to the FM model, 15% of traffic to the TensorFlow model, and 15% of traffic to the PyTorch model.

* For customers who are from Europe, send all traffic to the TensorFlow model

...sh architecture can the company use to implement the required A/B testing setup?

- A. Create two new SageMaker endpoints for the TensorFlow and PyTorch models in addition to the existing SageMaker endpoint. Create an Application Load Balancer. Create a target group for each endpoint. Configure listener rules and add

weight to the target groups. To send traffic to the TensorFlow model for customers who are from Europe, create an additional listener rule to forward traffic to the TensorFlow target group.

- B. Create two production variants for the TensorFlow and PyTorch models. Create an auto scaling policy and configure the desired A/B weights to direct traffic to each production variant Update the existing SageMaker endpoint with the auto scaling policy. To send traffic to the TensorFlow model for customers who are from Europe, set the TargetVariant header in the request to point to the variant name of the TensorFlow model.
- **C. Create two production variants for the TensorFlow and PyTorch models. Specify the weight for each production variant in the SageMaker endpoint configuration. Update the existing SageMaker endpoint with the new configuration. To send traffic to the TensorFlow model for customers who are from Europe, set the TargetVariant header in the request to point to the variant name of the TensorFlow model.**
- D. Create two new SageMaker endpoints for the TensorFlow and PyTorch models in addition to the existing SageMaker endpoint. Create a Network Load Balancer. Create a target group for each endpoint. Configure listener rules and add weight to the target groups. To send traffic to the TensorFlow model for customers who are from Europe, create an additional listener rule to forward traffic to the TensorFlow target group.

Antwort: C

Begründung:

The correct answer is D because it allows the company to use the existing SageMaker endpoint and leverage the built-in functionality of production variants for A/B testing. Production variants can be used to test ML models that have been trained using different training datasets, algorithms, and ML frameworks; test how they perform on different instance types; or a combination of all of the above¹. By specifying the weight for each production variant in the endpoint configuration, the company can control how much traffic to send to each variant. By setting the TargetVariant header in the request, the company can invoke a specific variant directly for each request². This enables the company to implement the required A/B testing setup without creating additional endpoints or load balancers.

References:

1: Production variants - Amazon SageMaker

2: A/B Testing ML models in production using Amazon SageMaker | AWS Machine Learning Blog

160. Frage

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

Antwort: C

Begründung:

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.

161. Frage

During mini-batch training of a neural network for a classification problem, a Data Scientist notices that training accuracy oscillates

What is the MOST likely cause of this issue?

- A. Dataset shuffling is disabled
- B. The class distribution in the dataset is imbalanced
- C. The learning rate is very high
- D. The batch size is too big

Antwort: C

162. Frage

A retail company is selling products through a global online marketplace. The company wants to use machine learning (ML) to analyze customer feedback and identify specific areas for improvement. A developer has built a tool that collects customer reviews from the online marketplace and stores them in an Amazon S3 bucket. This process yields a dataset of 40 reviews. A data scientist building the ML models must identify additional sources of data to increase the size of the dataset.

Which data sources should the data scientist use to augment the dataset of reviews? (Choose three.)

- A. Product sales revenue figures for the company
- B. Social media posts containing the name of the company or its products
- C. A publicly available collection of customer reviews
- D. Instruction manuals for the company's products
- E. Emails exchanged by customers and the company's customer service agents
- F. A publicly available collection of news articles

Antwort: B,C,E

Begründung:

The data sources that the data scientist should use to augment the dataset of reviews are those that contain relevant and diverse customer feedback about the company or its products. Emails exchanged by customers and the company's customer service agents can provide valuable insights into the issues and complaints that customers have, as well as the solutions and responses that the company offers. Social media posts containing the name of the company or its products can capture the opinions and sentiments of customers and potential customers, as well as their reactions to marketing campaigns and product launches. A publicly available collection of customer reviews can provide a large and varied sample of feedback from different online platforms and marketplaces, which can help to generalize the ML models and avoid bias.

References:

- * Detect sentiment from customer reviews using Amazon Comprehend | AWS Machine Learning Blog
- * How to Apply Machine Learning to Customer Feedback

163. Frage

An ecommerce company has developed a XGBoost model in Amazon SageMaker to predict whether a customer will return a purchased item. The dataset is imbalanced. Only 5% of customers return items. A data scientist must find the hyperparameters to capture as many instances of returned items as possible. The company has a small budget for compute.

How should the data scientist meet these requirements MOST cost-effectively?

- A. Tune the `csv_weight` hyperparameter and the `scale_pos_weight` hyperparameter by using automatic model tuning (AMT). Optimize on `{"HyperParameterTuningJobObjective": {"MetricName": "validation:f1", "Type": "Maximize"}}`.
- B. Tune the `csv_weight` hyperparameter and the `scale_pos_weight` hyperparameter by using automatic model tuning (AMT). Optimize on `{"HyperParameterTuningJobObjective": {"MetricName": "validation:f1", "Type": "Minimize"}}`.
- C. Tune all possible hyperparameters by using automatic model tuning (AMT). Optimize on `{"HyperParameterTuningJobObjective": {"MetricName": "validation:accuracy", "Type": "Maximize"}}`.
- D. Tune all possible hyperparameters by using automatic model tuning (AMT). Optimize on `{"HyperParameterTuningJobObjective": {"MetricName": "validation:f1", "Type": "Maximize"}}`.

Antwort: A

Begründung:

The best solution to meet the requirements is to tune the `csv_weight` hyperparameter and the `scale_pos_weight` hyperparameter by using automatic model tuning (AMT). Optimize on

```
{"HyperParameterTuningJobObjective": {"MetricName": "validation:f1", "Type": "Maximize"}}
```

The `csv_weight` hyperparameter is used to specify the instance weights for the training data in CSV format.

This can help handle imbalanced data by assigning higher weights to the minority class examples and lower weights to the majority class examples. The `scale_pos_weight` hyperparameter is used to control the balance of positive and negative weights. It is the ratio of the number of negative class examples to the number of positive class examples. Setting a higher value for this hyperparameter can increase the importance of the positive class and improve the recall. Both of these hyperparameters can help the XGBoost model capture as many instances of returned items as possible.

Automatic model tuning (AMT) is a feature of Amazon SageMaker that automates the process of finding the best hyperparameter values for a machine learning model. AMT uses Bayesian optimization to search the hyperparameter space and evaluate the model performance based on a predefined objective metric. The objective metric is the metric that AMT tries to optimize by adjusting the hyperparameter values. For imbalanced classification problems, accuracy is not a good objective metric, as it can be misleading and biased towards the majority class. A better objective metric is the F1 score, which is the harmonic mean of precision and recall. The F1 score can reflect the balance between precision and recall and is more suitable for imbalanced data. The F1 score ranges from 0 to 1, where 1 is the best possible value. Therefore, the type of the objective should be "Maximize" to achieve the highest F1 score. By tuning the `csv_weight` and `scale_pos_weight` hyperparameters and optimizing on the F1 score, the data scientist can meet the requirements most cost-effectively. This solution requires tuning only two hyperparameters, which can reduce the computation time and cost compared to tuning all possible hyperparameters. This solution also uses the appropriate objective metric for imbalanced classification, which can improve the model performance and capture more instances of returned items.

References:

*XGBoost Hyperparameters

*Automatic Model Tuning

*How to Configure XGBoost for Imbalanced Classification

*Imbalanced Data

164. Frage

.....

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