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## Amazon AWS Certified Machine Learning - Specialty Sample Questions

## (Q136-Q141):

### NEW QUESTION # 136

A Machine Learning Specialist is packaging a custom ResNet model into a Docker container so the company can leverage Amazon SageMaker for training. The Specialist is using Amazon EC2 P3 instances to train the model and needs to properly configure the Docker container to leverage the NVIDIA GPUs.

What does the Specialist need to do?

- A. Organize the Docker container's file structure to execute on GPU instances.
- B. Set the GPU flag in the Amazon SageMaker CreateTrainingJob request body.
- C. **Bundle the NVIDIA drivers with the Docker image.**
- D. Build the Docker container to be NVIDIA-Docker compatible.

**Answer: C**

### NEW QUESTION # 137

A retail company intends to use machine learning to categorize new products. A labeled dataset of current products was provided to the Data Science team. The dataset includes 1,200 products.

The labeled dataset has 15 features for each product such as title dimensions, weight, and price.

Each product is labeled as belonging to one of six categories such as books, games, electronics, and movies.

Which model should be used for categorizing new products using the provided dataset for training?

- A. A regression forest where the number of trees is set equal to the number of product categories
- B. **AnXGBoost model where the objective parameter is set to multisoftmax**
- C. A deep convolutional neural network (CNN) with a softmax activation function for the last layer
- D. A DeepAR forecasting model based on a recurrent neural network (RNN)

**Answer: B**

Explanation:

A XGBoost multi class classification.

<https://medium.com/@gabrielziegler3/multiclass-multilabel-classification-with-xgboost-66195e4d9f2d>

CNN is used for image classification problems.

### NEW QUESTION # 138

A global financial company is using machine learning to automate its loan approval process. The company has a dataset of customer information. The dataset contains some categorical fields, such as customer location by city and housing status. The dataset also includes financial fields in different units, such as account balances in US dollars and monthly interest in US cents.

The company's data scientists are using a gradient boosting regression model to infer the credit score for each customer. The model has a training accuracy of 99% and a testing accuracy of 75%. The data scientists want to improve the model's testing accuracy.

Which process will improve the testing accuracy the MOST?

- A. Use a label encoder for the categorical fields in the dataset. Perform L1 regularization on the financial fields in the dataset. Apply L2 regularization to the data.
- B. Use a logarithm transformation on the categorical fields in the dataset. Perform binning on the financial fields in the dataset. Use imputation to populate missing values in the dataset.
- C. **Use tokenization of the categorical fields in the dataset. Perform binning on the financial fields in the dataset. Remove the outliers in the data by using the z-score.**
- D. Use a one-hot encoder for the categorical fields in the dataset. Perform standardization on the financial fields in the dataset. Apply L1 regularization to the data.

**Answer: C**

### NEW QUESTION # 139

A Machine Learning Specialist receives customer data for an online shopping website. The data includes demographics, past visits, and locality information. The Specialist must develop a machine learning approach to identify the customer shopping patterns,

preferences and trends to enhance the website for better service and smart recommendations. Which solution should the Specialist recommend?

- A. Collaborative filtering based on user interactions and correlations to identify patterns in the customer database
- B. A neural network with a minimum of three layers and random initial weights to identify patterns in the customer database
- C. Random Cut Forest (RCF) over random subsamples to identify patterns in the customer database
- D. Latent Dirichlet Allocation (LDA) for the given collection of discrete data to identify patterns in the customer database.

**Answer: A**

#### **NEW QUESTION # 140**

A gaming company has launched an online game where people can start playing for free but they need to pay if they choose to use certain features. The company needs to build an automated system to predict whether or not a new user will become a paid user within 1 year. The company has gathered a labeled dataset from 1 million users. The training dataset consists of 1,000 positive samples (from users who ended up paying within 1 year) and 999,000 negative samples (from users who did not use any paid features). Each data sample consists of 200 features including user age, device, location, and play patterns. Using this dataset for training, the Data Science team trained a random forest model that converged with over

99% accuracy on the training set. However, the prediction results on a test dataset were not satisfactory.

Which of the following approaches should the Data Science team take to mitigate this issue? (Select TWO.)

- A. Change the cost function so that false negatives have a higher impact on the cost value than false positives
- B. indicate a copy of the samples in the test database in the training dataset
- C. Generate more positive samples by duplicating the positive samples and adding a small amount of noise to the duplicated data.
- D. Add more deep trees to the random forest to enable the model to learn more features.
- E. Change the cost function so that false positives have a higher impact on the cost value than false negatives

**Answer: A,C**

Explanation:

The Data Science team is facing a problem of imbalanced data, where the positive class (paid users) is much less frequent than the negative class (non-paid users). This can cause the random forest model to be biased towards the majority class and have poor performance on the minority class. To mitigate this issue, the Data Science team can try the following approaches:

C). Generate more positive samples by duplicating the positive samples and adding a small amount of noise to the duplicated data. This is a technique called data augmentation, which can help increase the size and diversity of the training data for the minority class. This can help the random forest model learn more features and patterns from the positive class and reduce the imbalance ratio.

D). Change the cost function so that false negatives have a higher impact on the cost value than false positives.

This is a technique called cost-sensitive learning, which can assign different weights or costs to different classes or errors. By assigning a higher cost to false negatives (predicting non-paid when the user is actually paid), the random forest model can be more sensitive to the minority class and try to minimize the misclassification of the positive class.

Bagging and Random Forest for Imbalanced Classification

Surviving in a Random Forest with Imbalanced Datasets

machine learning - random forest for imbalanced data? - Cross Validated Biased Random Forest For Dealing With the Class Imbalance Problem

#### **NEW QUESTION # 141**

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