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Certified-Machine-Learning-Specialty questions and topics.

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 solutions using AWS. They should also have a good understanding of AWS services such as AWS Lambda, AWS S3, AWS EC2, and AWS CloudFormation.

What Are Career Opportunities for Certified Specialists?

If you are determined to get this AWS Machine Learning Specialty certification, you should be ready to understand how machine learning works and how to implement its features to solve different business problems and improve processes. By adding this certification under your belt, you can apply for different positions, such as:

- Senior Development Manager, Applied Science;
- Software Development Engineer;
- Deep and Machine Learning Specialist.
- Machine Learning Engineer;

Any successful candidate who manages to get the AWS Machine Learning Specialty certification will have improved chances to get a well-paid job and appealing incentives. We checked what Payscale.com mentions the opportunities available for the positions above. According to the benchmark of this site, a Machine Learning Engineer will get around \$111k per annum. On the other hand, a Software Development Engineer can win approximately \$110k in one year. Of course, a candidate who gets an international certificate like the AWS one will benefit from a higher salary. In case you wonder what a Machine Learning Engineer does, then you should know that he/she works with artificial intelligence and creates different programs and algorithms that improve business development and make processes more effective. The person working in this position is quite autonomous and has an open-minded attitude. He/she will immediately identify faults and come with immediate solutions to prevent any system breakdowns.

Amazon AWS Certified Machine Learning - Specialty exam is a certification program designed to validate an individual's knowledge and skills in the field of machine learning on the Amazon Web Services (AWS) platform. AWS-Certified-Machine-Learning-Specialty Exam is intended for individuals who have experience working with data analytics and machine learning, and are looking to expand their knowledge and skills in this domain. AWS-Certified-Machine-Learning-Specialty exam is designed to test the candidate's knowledge of machine learning concepts, data preparation, feature engineering, model selection, and more specific topics related to machine learning on the AWS platform.

Amazon AWS Certified Machine Learning - Specialty Sample Questions (Q116-Q121):

NEW QUESTION # 116

A Machine Learning Specialist previously trained a logistic regression model using scikit-learn on a local machine, and the Specialist now wants to deploy it to production for inference only.

What steps should be taken to ensure Amazon SageMaker can host a model that was trained locally?

- A. Serialize the trained model so the format is compressed for deployment. Build the image and upload it to Docker Hub.
- B. Serialize the trained model so the format is compressed for deployment. Tag the Docker image with the registry hostname and upload it to Amazon S3.
- **C. Build the Docker image with the inference code. Tag the Docker image with the registry hostname and upload it to Amazon ECR.**
- D. Build the Docker image with the inference code. Configure Docker Hub and upload the image to Amazon ECR.

Answer: C

Explanation:

To deploy a model that was trained locally to Amazon SageMaker, the steps are:

* Build the Docker image with the inference code. The inference code should include the model loading, data preprocessing, prediction, and postprocessing logic. The Docker image should also include the dependencies and libraries required by the inference code and the model.

* Tag the Docker image with the registry hostname and upload it to Amazon ECR. Amazon ECR is a fully managed container registry that makes it easy to store, manage, and deploy container images. The registry hostname is the Amazon ECR registry URI for your account and Region. You can use the AWS CLI or the Amazon ECR console to tag and push the Docker image to Amazon ECR.

* Create a SageMaker model entity that points to the Docker image in Amazon ECR and the model artifacts in Amazon S3. The model entity is a logical representation of the model that contains the information needed to deploy the model for inference. The

model artifacts are the files generated by the model training process, such as the model parameters and weights. You can use the AWS CLI, the SageMaker Python SDK, or the SageMaker console to create the model entity.

* Create an endpoint configuration that specifies the instance type and number of instances to use for hosting the model. The endpoint configuration also defines the production variants, which are the different versions of the model that you want to deploy. You can use the AWS CLI, the SageMaker Python SDK, or the SageMaker console to create the endpoint configuration.

* Create an endpoint that uses the endpoint configuration to deploy the model. The endpoint is a web service that exposes an HTTP API for inference requests. You can use the AWS CLI, the SageMaker Python SDK, or the SageMaker console to create the endpoint.

AWS Machine Learning Specialty Exam Guide

AWS Machine Learning Training - Deploy a Model on Amazon SageMaker

AWS Machine Learning Training - Use Your Own Inference Code with Amazon SageMaker Hosting Services

NEW QUESTION # 117

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

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

Answer: B,D,F

NEW QUESTION # 118

A Machine Learning Specialist is planning to create a long-running Amazon EMR cluster. The EMR cluster will have 1 master node, 10 core nodes, and 20 task nodes. To save on costs, the Specialist will use Spot Instances in the EMR cluster. Which nodes should the Specialist launch on Spot Instances?

- A. Any of the task nodes
- B. Any of the core nodes
- **C. Master node**
- D. Both core and task nodes

Answer: C

NEW QUESTION # 119

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

Answer: D

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 # 120

A machine learning engineer is building a bird classification model. The engineer randomly separates a dataset into a training dataset and a validation dataset. During the training phase, the model achieves very high accuracy. However, the model did not generalize well during validation of the validation dataset. The engineer realizes that the original dataset was imbalanced.

What should the engineer do to improve the validation accuracy of the model?

- A. Acquire additional data about the majority classes in the original dataset.
- B. Use a smaller, randomly sampled version of the training dataset.
- C. Perform systematic sampling on the original dataset.
- **D. Perform stratified sampling on the original dataset.**

Answer: D

Explanation:

Stratified sampling is a technique that preserves the class distribution of the original dataset when creating a smaller or split dataset. This means that the proportion of examples from each class in the original dataset is maintained in the smaller or split dataset.

Stratified sampling can help improve the validation accuracy of the model by ensuring that the validation dataset is representative of the original dataset and not biased towards any class. This can reduce the variance and overfitting of the model and increase its generalization ability.

Stratified sampling can be applied to both oversampling and undersampling methods, depending on whether the goal is to increase or decrease the size of the dataset.

The other options are not effective ways to improve the validation accuracy of the model. Acquiring additional data about the majority classes in the original dataset will only increase the imbalance and make the model more biased towards the majority classes. Using a smaller, randomly sampled version of the training dataset will not guarantee that the class distribution is preserved and may result in losing important information from the minority classes. Performing systematic sampling on the original dataset will also not ensure that the class distribution is preserved and may introduce sampling bias if the original dataset is ordered or grouped by class.

NEW QUESTION # 121

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