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Understanding functional and technical aspects of AWS Certified Machine Learning Specialty Exam Exploratory Data Analysis

The following will be discussed here:

- Analyze and visualize data for machine learning
- Perform feature engineering
- Sanitize and prepare data for modeling

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Amazon AWS-Certified-Machine-Learning-Specialty (AWS Certified Machine Learning - Specialty) Certification Exam is designed to assess the knowledge and skills of individuals in the field of machine learning. AWS Certified Machine Learning - Specialty certification is intended for professionals who have experience in building, training, and deploying machine learning models on the Amazon Web Services (AWS) platform. MLS-C01 Exam Tests the ability of candidates to design and implement machine learning solutions using AWS services.

Amazon AWS Certified Machine Learning - Specialty Sample Questions (Q56-Q61):

NEW QUESTION # 56

A Machine Learning Specialist is building a convolutional neural network (CNN) that will classify 10 types of animals. The Specialist has built a series of layers in a neural network that will take an input image of an animal, pass it through a series of convolutional and pooling layers, and then finally pass it through a dense and fully connected layer with 10 nodes. The Specialist would like to get an output from the neural network that is a probability distribution of how likely it is that the input image belongs to each of the 10 classes.

Which function will produce the desired output?

- A. Smooth L1 loss
- B. Rectified linear units (ReLU)
- C. Dropout
- **D. Softmax**

Answer: D

Explanation:

<https://medium.com/data-science-bootcamp/understand-the-softmax-function-in-minutes-f3a59641e86d>

NEW QUESTION # 57

A Machine Learning Specialist is building a model to predict future employment rates based on a wide range of economic factors. While exploring the data, the Specialist notices that the magnitude of the input features vary greatly. The Specialist does not want variables with a larger magnitude to dominate the model. What should the Specialist do to prepare the data for model training?

- A. Apply quantile binning to group the data into categorical bins to keep any relationships in the data by replacing the magnitude with distribution
- B. Apply the orthogonal sparse Diagram (OSB) transformation to apply a fixed-size sliding window to generate new features of a similar magnitude.
- **C. Apply normalization to ensure each field will have a mean of 0 and a variance of 1 to remove any significant magnitude**
- D. Apply the Cartesian product transformation to create new combinations of fields that are independent of the magnitude

Answer: C

Explanation:

Normalization is a data preprocessing technique that can be used to scale the input features to a common range, such as $[-1, 1]$ or $[0, 1]$. Normalization can help reduce the effect of outliers, improve the convergence of gradient-based algorithms, and prevent variables with a larger magnitude from dominating the model. One common method of normalization is standardization, which transforms each feature to have a mean of 0 and a variance of 1. This can be done by subtracting the mean and dividing by the standard deviation of each feature. Standardization can be useful for models that assume the input features are normally distributed, such as linear regression, logistic regression, and support vector machines. References:


Data normalization and standardization: A video that explains the concept and benefits of data normalization and standardization.

Standardize or Normalize?: A blog post that compares different methods of scaling the input features.

NEW QUESTION # 58

A Machine Learning Specialist is assigned to a Fraud Detection team and must tune an XGBoost model, which is working appropriately for test data. However, with unknown data, it is not working as expected. The existing parameters are provided as follows.

```
param = {
    'eta': 0.05, # the training step for each iteration
    'silent': 1, # logging mode - quiet
    'n_estimators': 2000,
    'max_depth': 30,
    'min_child_weight': 3,
    'gamma': 0,
    'subsample': 0.8,
    'objective': 'multi:softprob', # error evaluation for multiclass training
    'num_class': 201} # the number of classes that exist in this dataset
num_round = 60 # the number of training iterations
```



Which parameter tuning guidelines should the Specialist follow to avoid overfitting?

- A. Increase the max_depth parameter value.
- B. Lower the min_child_weight parameter value.
- C. Update the objective to binary:logistic.
- **D. Lower the max_depth parameter value.**

Answer: D

Explanation:

Explanation

Overfitting occurs when a model performs well on the training data but poorly on the test data. This is often because the model has learned the training data too well and is not able to generalize to new data. To avoid overfitting, the Machine Learning Specialist should lower the max_depth parameter value. This will reduce the complexity of the model and make it less likely to overfit.

According to the XGBoost documentation¹, the max_depth parameter controls the maximum depth of a tree and lower values can help prevent overfitting. The documentation also suggests other ways to control overfitting, such as adding randomness, using regularization, and using early stopping¹. References:

XGBoost Parameters

NEW QUESTION # 59

A large JSON dataset for a project has been uploaded to a private Amazon S3 bucket. The Machine Learning Specialist wants to securely access and explore the data from an Amazon SageMaker notebook instance. A new VPC was created and assigned to the Specialist. How can the privacy and integrity of the data stored in Amazon S3 be maintained while granting access to the Specialist for analysis?

- A. Launch the SageMaker notebook instance within the VPC with SageMaker-provided internet access enabled. Use an S3 ACL to open read privileges to the everyone group.
- B. Launch the SageMaker notebook instance within the VPC with SageMaker-provided internet access enabled. Generate an S3 pre-signed URL for access to data in the bucket.
- **C. Launch the SageMaker notebook instance within the VPC and create an S3 VPC endpoint for the notebook to access the data. Define a custom S3 bucket policy to only allow requests from your VPC to access the S3 bucket.**
- D. Launch the SageMaker notebook instance within the VPC and create an S3 VPC endpoint for the notebook to access the data. Copy the JSON dataset from Amazon S3 into the ML storage volume on the SageMaker notebook instance and work against the local dataset.

Answer: C

Explanation:

The best way to maintain the privacy and integrity of the data stored in Amazon S3 is to use a combination of VPC endpoints and S3 bucket policies. A VPC endpoint allows the SageMaker notebook instance to access the S3 bucket without going through the public internet. A bucket policy allows the S3 bucket owner to specify which VPCs or VPC endpoints can access the bucket. This way, the data is protected from unauthorized access and tampering. The other options are either insecure (A and D) or inefficient (B). References: Using Amazon S3 VPC Endpoints, Using Bucket Policies and User Policies

NEW QUESTION # 60

A Mobile Network Operator is building an analytics platform to analyze and optimize a company's operations using Amazon Athena and Amazon S3. The source systems send data in CSV format in real time. The Data Engineering team wants to transform the data to the Apache Parquet format before storing it on Amazon S3. Which solution takes the LEAST effort to implement?

- **A. Ingest .CSV data from Amazon Kinesis Data Streams and use Amazon Kinesis Data Firehose to convert data into Parquet.**
- B. Ingest .CSV data using Apache Spark Structured Streaming in an Amazon EMR cluster and use Apache Spark to convert data into Parquet.
- C. Ingest .CSV data using Apache Kafka Streams on Amazon EC2 instances and use Kafka Connect S3 to serialize data as Parquet.
- D. Ingest .CSV data from Amazon Kinesis Data Streams and use Amazon Glue to convert data into Parquet.

Answer: A

Explanation:

Amazon Kinesis Data Streams is a service that can capture, store, and process streaming data in real time. Amazon Kinesis Data Firehose is a service that can deliver streaming data to various destinations, such as Amazon S3, Amazon Redshift, or Amazon Elasticsearch Service. Amazon Kinesis Data Firehose can also transform the data before delivering it, such as converting the data format, compressing the data, or encrypting the data. One of the supported data formats that Amazon Kinesis Data Firehose can convert to is Apache Parquet, which is a columnar storage format that can improve the performance and cost-efficiency of analytics queries. By using Amazon Kinesis Data Streams and Amazon Kinesis Data Firehose, the Mobile Network Operator can ingest the .CSV data from the source systems and use Amazon Kinesis Data Firehose to convert the data into Parquet before storing it on Amazon S3. This solution takes the least effort to implement, as it does not require any additional resources, such as Amazon EC2 instances, Amazon EMR clusters, or Amazon Glue jobs. The solution can also leverage the built-in features of Amazon Kinesis Data Firehose, such as data buffering, batching, retry, and error handling.

References:

Amazon Kinesis Data Streams - Amazon Web Services
Amazon Kinesis Data Firehose - Amazon Web Services
Data Transformation - Amazon Kinesis Data Firehose
Apache Parquet - Amazon Athena

NEW QUESTION # 61

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