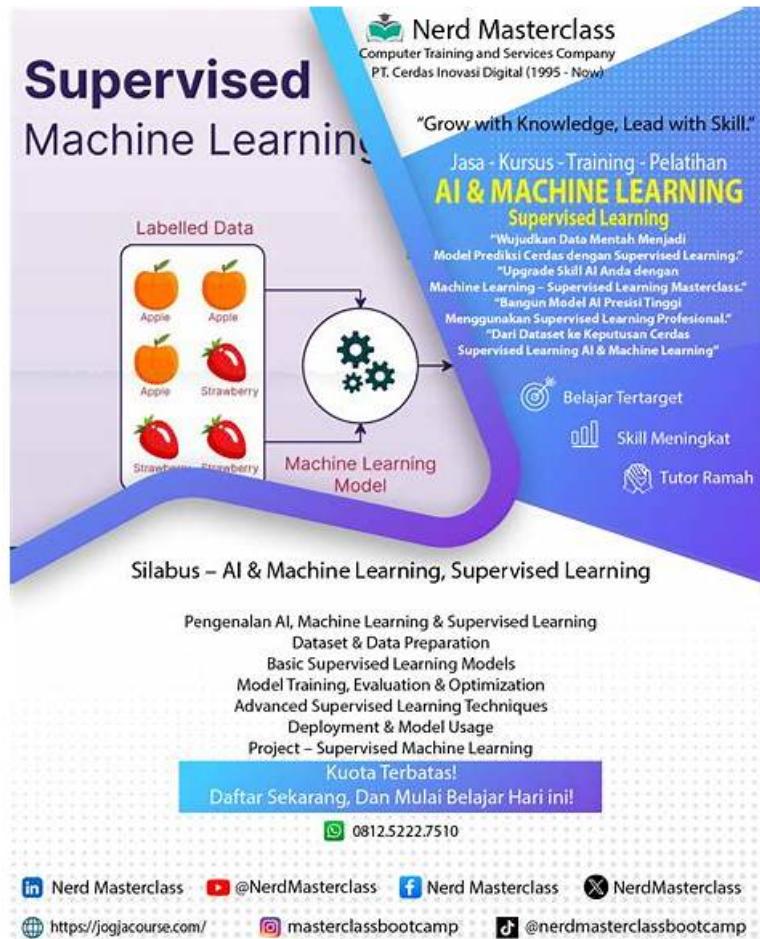# Top AWS-Certified-Machine-Learning-Specialty Hot Spot Questions | Valid Amazon AWS-Certified-Machine-Learning-Specialty: AWS Certified Machine Learning - Specialty 100% Pass

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Topics in AWS Certified Machine Learning - Specialty

The following will be discussed in **AMAZON MLS-C01 practice exam** and **AMAZON MLS-C01 practice exams**:

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Amazon MLS-C01 exam covers a range of topics such as data engineering, exploratory data analysis, feature engineering, model selection and training, tuning and optimization, machine learning algorithms, and deploying and maintaining machine learning models. Candidates are expected to have a deep understanding of these topics and be able to apply their knowledge to real-world scenarios. AWS-Certified-Machine-Learning-Specialty Exam is designed to test the candidate's ability to create efficient and effective machine learning solutions on AWS. Successful candidates will be able to demonstrate their expertise in the field and show that they are capable of designing and deploying machine learning models that meet business requirements.

The AWS Certified Machine Learning - Specialty certification exam is a professional-level certification that validates the candidate's ability to design, implement, deploy, and maintain machine learning solutions on AWS. AWS Certified Machine Learning - Specialty certification exam is intended for data scientists, software developers, and machine learning practitioners who want to demonstrate their expertise in building and deploying ML solutions on AWS. Passing this certification exam is a valuable credential for professionals seeking to advance their careers in the field of machine learning.

Amazon AWS Certified Machine Learning - Specialty Sample Questions (Q113-Q118):

NEW QUESTION # 113
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 shards for the data stream.
- B. Add more consumers using the Kinesis Client Library (KCL).
- C. Increase the number of S3 prefixes for the delivery stream to write to.
- D. Decrease the retention period for the data stream.

Answer: A

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 stream1.
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 Firehose2.
* 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 stream3.
* 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 Firehose4.

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 # 114

A data scientist uses an Amazon SageMaker notebook instance to conduct data exploration and analysis. This requires certain Python packages that are not natively available on Amazon SageMaker to be installed on the notebook instance.
How can a machine learning specialist ensure that required packages are automatically available on the notebook instance for the data scientist to use?

- A. Create a Jupyter notebook file (.ipynb) with cells containing the package installation commands to execute and place the file under the /etc/init directory of each Amazon SageMaker notebook instance.
- B. Use the conda package manager from within the Jupyter notebook console to apply the necessary conda packages to the default kernel of the notebook.
- C. Install AWS Systems Manager Agent on the underlying Amazon EC2 instance and use Systems Manager Automation to execute the package installation commands.
- D. Create an Amazon SageMaker lifecycle configuration with package installation commands and assign the lifecycle configuration to the notebook instance.

Answer: A

Explanation:
Explanation/Reference: https://towardsdatascience.com/automating-aws-sagemaker-notebooks-2dec62bc2c84

NEW QUESTION # 115

An online reseller has a large, multi-column dataset with one column missing 30% of its data A Machine Learning Specialist believes that certain columns in the dataset could be used to reconstruct the missing data.
Which reconstruction approach should the Specialist use to preserve the integrity of the dataset?

- A. Mean substitution
- B. Listwise deletion
- C. Last observation carried forward
- D. Multiple imputation

Answer: D

NEW QUESTION # 116

A Machine Learning Specialist is building a prediction model for a large number of features using linear models, such as linear regression and logistic regression During exploratory data analysis the Specialist observes that many features are highly correlated with each other This may make the model unstable What should be done to reduce the impact of having such a large number of features?

- A. Apply the Pearson correlation coefficient
- B. Use matrix multiplication on highly correlated features.
- C. Create a new feature space using principal component analysis (PCA)
- D. Perform one-hot encoding on highly correlated features

Answer: C

Explanation:
Principal component analysis (PCA) is an unsupervised machine learning algorithm that attempts to reduce the dimensionality (number of features) within a dataset while still retaining as much information as possible.
This is done by finding a new set of features called components, which are composites of the original features that are uncorrelated with one another. They are also constrained so that the first component accounts for the largest possible variability in the data, the second component the second most variability, and so on. By using PCA, the impact of having a large number of features that are highly correlated with each other can be reduced, as the new feature space will have fewer dimensions and less redundancy. This

can make the linear models more stable and less prone to overfitting. References:
Principal Component Analysis (PCA) Algorithm - Amazon SageMaker
Perform a large-scale principal component analysis faster using Amazon SageMaker | AWS Machine Learning Blog Machine
Learning- Prinicipal Component Analysis | i2tutorials

NEW QUESTION # 117

A company needs to develop a model that uses a machine learning (ML) model for risk analysis. An ML engineer needs to evaluate the contribution each feature of a training dataset makes to the prediction of the target variable before the ML engineer selects features.
How should the ML engineer predict the contribution of each feature?

- A. Use the Amazon SageMaker Data Wrangler bias report to identify potential biases in the data related to feature engineering.
- B. Use the Amazon SageMaker Data Wrangler multicollinearity measurement features and the principal component analysis (PCA) algorithm to calculate the variance of the dataset along multiple directions in the feature space.
- C. Use an Amazon SageMaker Data Wrangler quick model visualization to find feature importance scores that are between 0.5 and 1.
- D. Use an Amazon SageMaker Data Wrangler data flow to create and modify a data preparation pipeline.Manually add the feature scores.

Answer: C

Explanation:
To evaluate the contribution of each feature before model training, feature importance scores are a primary tool. In Amazon SageMaker Data Wrangler, a Quick Model can be used to rapidly generate a model on the dataset and return feature importance scores. These scores indicate how much each feature influences the target variable.
"Use Quick Model to generate feature importance scores quickly to help understand which features contribute the most to predictions. These scores range from 0 to 1, with higher values indicating higher contribution." This allows ML engineers to assess feature relevance without full-scale model development, thus saving time and effort in the feature selection phase of the pipeline.

NEW QUESTION # 118

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