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Snowflake SnowPro Advanced: Data Scientist Certification Exam Sample Questions (Q104-Q109):

NEW QUESTION # 104
You have trained a complex Random Forest model in Snowflake to predict loan default risk. You wish to understand the individual and combined effects of 'credit_score' and 'debt_to_income_ratio' on the predicted probability of default. Which approach is MOST suitable for visualizing and interpreting these relationships?

- A. Create a two-way Partial Dependence Plot (PDP) showing the interaction between 'credit_score' and 'debt_to_income_ratio'.
- B. Calculate feature importance using SNOWFLAKE.ML.FEATURE IMPORTANCE and focus on the features with the highest scores.
- C. Fit a simpler linear model (e.g., Logistic Regression) to the data and interpret its coefficients.
- D. Generate individual Partial Dependence Plots (PDPs) for 'credit_score' and 'debt_to_income_ratio'.
- E. Examine the model's overall accuracy (e.g., AUC) and assume the relationships are well-represented.

Answer: A

Explanation:
The correct answer is C. While individual PDPs (option B) provide insights into the individual effects of each feature, a two-way PDP specifically visualizes and helps interpret the interaction between 'credit_score' and 'debt_to_income_ratio'. This is crucial for understanding how the combined effect of these features influences the predicted probability of default. Feature importance (option A) indicates feature relevance but doesn't show the nature of the relationship. Simplifying the model (option D) sacrifices the complexity captured by the Random Forest. Overall accuracy (option E) doesn't provide specific insights into feature relationships.

NEW QUESTION # 105
You are building a machine learning model using Snowflake data to predict customer churn. Your dataset includes a 'CUSTOMER TYPE column with the following possible values: 'New', 'Returning', and 'VIP'. You need to perform one-hot encoding on this column. Which of the following Snowflake SQL queries correctly implements one-hot encoding for the 'CUSTOMER TYPE column, creating separate binary columns for each customer type ('IS NEW', 'IS RETURNING', 'IS VIP')?

- ```sql SELECT , CASE WHEN CUSTOMER_TYPE = 'New' THEN 1 ELSE 0 END AS IS_NEW, CASE WHEN CUSTOMER_TYPE = 'Returning' THEN 1 ELSE 0 END AS IS_RETURNING, CASE WHEN CUSTOMER_TYPE = 'VIP' THEN 1 ELSE 0 END AS IS_VIP FROM CUSTOMERS; ```
- ```sql SELECT , IFF(CUSTOMER_TYPE = 'New', 1, 0) AS IS_NEW, IFF(CUSTOMER_TYPE = 'Returning', 1, 0) AS IS_RETURNING, IFF(CUSTOMER_TYPE = 'VIP', 1, 0) AS IS_VIP FROM CUSTOMERS; ```
- ```sql SELECT , DECODE(CUSTOMER_TYPE, 'New', 1, 0) AS IS_NEW, DECODE(CUSTOMER_TYPE, 'Returning', 1, 0) AS IS_RETURNING, DECODE(CUSTOMER_TYPE, 'VIP', 1, 0) AS IS_VIP FROM CUSTOMERS; ```
- ```sql SELECT , GET_DDL('TABLE', CUSTOMER_TYPE) AS IS_NEW, GET_DDL('TABLE', CUSTOMER_TYPE) AS IS_RETURNING, GET_DDL('TABLE', CUSTOMER_TYPE) AS IS_VIP FROM CUSTOMERS; ```
- ```sql CREATE OR REPLACE TEMPORARY TABLE one_hot_encoded AS SELECT , ARRAY_CONSTRUCT(CUSTOMER_TYPE = 'New', CUSTOMER_TYPE = 'Returning', CUSTOMER_TYPE = 'VIP') AS customer_type_encoded FROM CUSTOMERS; ```

- A. Option A
- B. Option C
- C. Option B
- D. Option D
- E. Option E

Answer: A,B,C

Explanation:
Options A, B, and C are all valid ways to perform one-hot encoding in Snowflake. Option A uses the standard 'CASE statement, Option B leverages the 'IFF function (inline IF), and Option C uses 'DECODE , all achieving the same result of creating binary indicators for each category. Option D is incorrect because it uses GET DDL, which retrieves DDL statements, not for comparison. Option E is incorrect because it does not represent three seperate columns of binary columns for each customer type. Therefore, options A, B, and C are the correct approaches to generate separate binary columns for one-hot encoding.

NEW QUESTION # 106
You are building a data science pipeline in Snowflake to predict customer churn. The pipeline includes a Python UDF that uses a pre- trained scikit-learn model stored as a binary file in a Snowflake stage. The UDF needs to load this model for prediction. You've encountered an issue where the UDF intermittently fails, seemingly related to resource limits when multiple concurrent queries invoke the UDF. Which of the following strategies would best optimize the UDF for concurrency and resource efficiency, minimizing the risk of failure?

- A. Load the scikit-learn model outside the UDF function in the global scope of the module so that all invocations share the same loaded model instance. Use the 'context.getExecutionContext(Y to track execution, making sure it is thread safe.
- B. Load the scikit-learn model inside the UDF function on every invocation to ensure the latest version is used.
- C. Increase the memory allocated to the Snowflake warehouse to accommodate multiple UDF invocations.
- D. Implement a global, lazy-loaded cache for the scikit-learn model within the UDF's module. The model is loaded only once during the first invocation and shared across subsequent calls. Protect the loading process with a lock to prevent race conditions in concurrent environments.
- E. Utilize Snowflake's session-level caching by storing the loaded model in 'session.get('model')' to be reused across multiple UDF calls within the same session. Reload the model if 'session.get('model')' is None.

Answer: D

Explanation:
Option D provides the most efficient and robust solution. Loading the model only once (lazy loading) reduces overhead. A global cache ensures reusability. A lock is crucial to prevent race conditions during the initial loading in a concurrent environment. Option A is inefficient due to repeated loading. Option B is problematic because Snowflake UDFs do not directly support global variables in a thread-safe manner. Option C is incorrect as 'session.get' is not a valid Snowflake API for Python UDFs and lacks thread safety. Option E, while potentially helpful, doesn't address the underlying inefficiency of repeatedly loading the model.

NEW QUESTION # 107
A marketing team is using Snowflake to store customer data including demographics, purchase history, and website activity. They want to perform customer segmentation using hierarchical clustering. Considering performance and scalability with very large datasets, which of the following strategies is the MOST suitable approach?

- A. Randomly sample a small subset of the customer data and perform hierarchical clustering on this subset using an external tool like R or Python with scikit-learn. Assume that results generalize well to the entire dataset. Avoid using Snowflake for this purpose.
- B. Directly apply an agglomerative hierarchical clustering algorithm with complete linkage to the entire dataset within Snowflake, using SQL. This is computationally feasible due to SQL's efficiency.
- C. Utilize a SQL-based affinity propagation method directly within Snowflake. This removes the need for feature scaling and specialized hardware.
- D. Employ BIRCH clustering with Snowflake Python UDF. Configure Snowflake resources accordingly. Optimize the clustering process. And tune parameters.
- E. Perform mini-batch K-means clustering using Snowflake's compute resources through a Snowpark DataFrame. Take a large sample of each mini-batch and perform hierarchical clustering on each mini-batch and then create clusters of clusters.

Answer: D

Explanation:
Hierarchical clustering has a high time complexity, making it impractical for large datasets. While mini-batch K-means provides the most efficient option for large datasets. BIRCH is more suited for huge datasets and can be applied as a Snowflake Python UDF with Snowpark DataFrames to provide scalability and high performance as its better than other clustering such as affinity propagation. Options A and E are impractical due to the computational cost of hierarchical clustering in SQL or affinity propagation in SQL. Sampling (Option C) can lead to inaccurate results.

NEW QUESTION # 108
A data scientist uses bootstrapping to estimate the sampling distribution of a statistic calculated from a dataset stored in Snowflake. They observe that the bootstrap distribution is significantly different from the original data distribution. Which of the following statements best describes the possible reasons for this difference, considering both the theoretical underpinnings of bootstrapping and potential limitations?

- A. Bootstrapping is only appropriate for normally distributed data; if the original data is not normal, the bootstrap distribution will inevitably differ significantly.
- B. The original sample may not be representative of the population, and the bootstrap procedure is simply amplifying the biases present in the original sample. Additionally, the statistic itself may be highly sensitive to outliers or specific data points, leading to a distorted bootstrap distribution.
- C. The statistic being estimated is inherently unstable and has a high variance, causing the bootstrap distribution to be wider and potentially different in shape compared to the original data distribution. This is a normal outcome when dealing with such statistics.

- D. Bootstrapping always provides accurate estimates of sampling distributions, any significant difference indicates an error in the code implementation.
- E. The difference is unexpected; the bootstrap distribution should always closely resemble the original data distribution, regardless of the statistic being estimated.

Answer: B,C

Explanation:
Options B and C are correct. Bootstrapping relies on the assumption that the original sample is representative of the population. If it isn't, the bootstrap distribution will reflect the biases of the sample. Also certain statistics, particularly those sensitive to outliers or with high variance, can produce bootstrap distributions that differ significantly from the original data distribution. Option A is incorrect because the bootstrap distribution doesn't necessarily have to be same as sample distribution. Option D is incorrect since Bootstrapping makes no assumptions regarding the distribution of original dataset and can be used for any data distribution. Option E is not correct. Bootstrapping is not always accurate and relies on assumptions to perform correctly.

NEW QUESTION # 109
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