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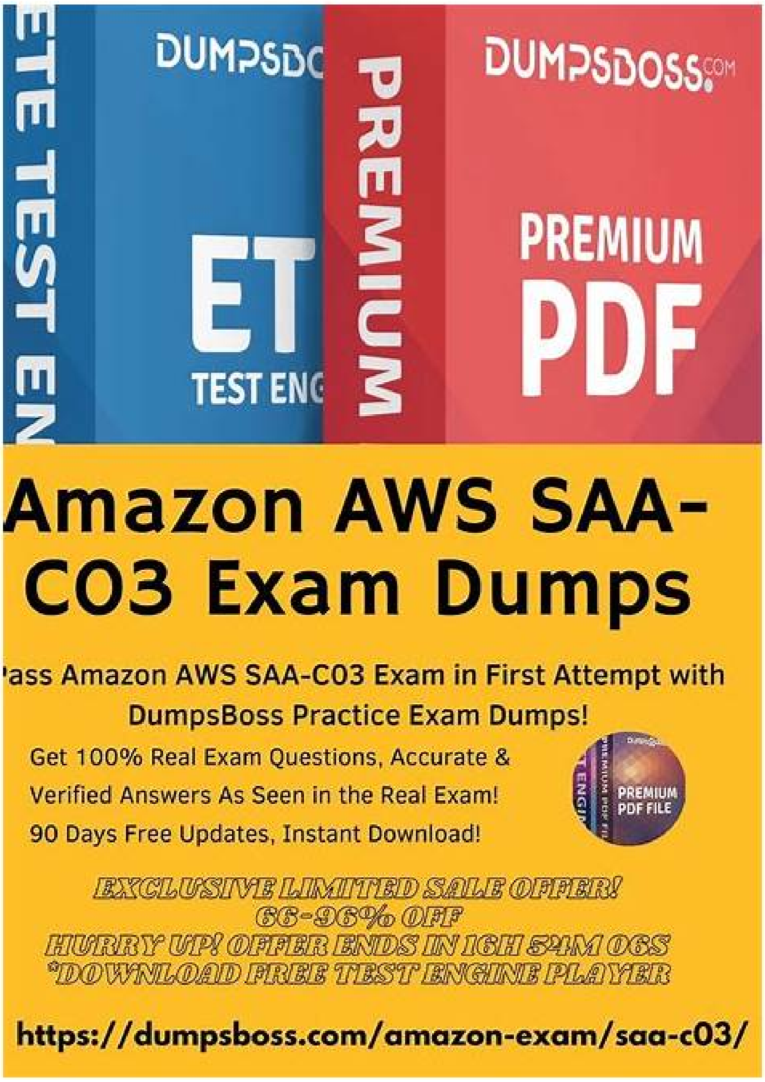

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Snowflake SnowPro Advanced: Data Scientist Certification Exam Sample Questions (Q280-Q285):

NEW QUESTION # 280
You are building a fraud detection model using Snowflake data'. The dataset 'TRANSACTIONS' contains billions of records and is partitioned by 'TRANSACTION DATE'. You want to use cross-validation to evaluate your model's performance on different subsets of the data and ensure temporal separation of training and validation sets. Given the following Snowflake table structure:

```
CREATE OR REPLACE TABLE TRANSACTIONS (
  TRANSACTION_ID VARCHAR,
  TRANSACTION_DATE DATE,
  AMOUNT NUMBER,
  USER_ID VARCHAR,
  FRAUD_FLAG BOOLEAN
);
```

Which approach would be MOST appropriate for implementing time-based cross-validation within Snowflake to avoid data leakage and ensure robust model evaluation? (Assume using Snowpark Python to develop)

- A. Use 'SNOWFLAKE.ML.MODEL REGISTRY.CREATE MODEL' with default settings, which automatically handles temporal partitioning based on the insertion timestamp of the data.
- B. Explicitly define training and validation sets based on date ranges within the Snowpark Python environment, performing iterative training and evaluation within the client environment before deploying a model to Snowflake. No built-in cross-validation used
- C. Utilize the 'SNOWFLAKE.ML.MODEL REGISTRY.CREATE MODEL' with the 'input_colS argument containing 'TRANSACTION DATE'. Snowflake will automatically infer the temporal nature of the data and perform time-based cross-validation.
- D. Implement a custom splitting function within Snowpark, creating sequential folds based on the 'TRANSACTION DATE column and use that with Snowpark ML's cross_validation. Ensure each fold represents a distinct time window without overlap.
- E. Create a UDF that assigns each row to a fold based on the 'TRANSACTION DATE column using a modulo operation. This is then passed to the 'cross_validation' function in Snowpark ML.

Answer: D

Explanation:
Option E is the most suitable because it explicitly addresses the temporal dependency and prevents data leakage by creating sequential, non-overlapping folds based on 'TRANSACTION DATE. Options A and D rely on potentially incorrect assumptions by Snowflake about time series data and are unlikely to provide the correct cross-validation folds. Option B can introduce leakage because it treats dates as categorical variables and performs random assignment. Option C performs the cross validation entirely outside of Snowflake, which negates the benefits of Snowflake's scalability and data proximity.

NEW QUESTION # 281
You are tasked with building a fraud detection model using Snowflake and Snowpark Python. The model needs to identify fraudulent transactions in real-time with high precision, even if it means missing some actual fraud cases. Which combination of optimization metric and model tuning strategy would be most appropriate for this scenario, considering the importance of minimizing false positives (incorrectly flagging legitimate transactions as fraudulent)?

- A. AUC-ROC, optimized with a randomized search focusing on hyperparameters related to model complexity.
- B. Recall, optimized with a threshold adjustment to minimize false negatives.
- C. Precision, optimized with a threshold adjustment to minimize false positives.
- D. F 1-Score, optimized to balance precision and recall equally.
- E. Log Loss, optimized with a grid search focusing on hyperparameters that improve overall accuracy.

Answer: C

Explanation:

Precision is the most suitable optimization metric because it focuses on minimizing false positives. In fraud detection, incorrectly flagging legitimate transactions as fraudulent can have significant negative consequences for customers and the business. By optimizing for precision and adjusting the prediction threshold to further minimize false positives, you can ensure that the model identifies fraudulent transactions with a high degree of certainty. Recall would prioritize catching all fraud cases, even at the cost of increased false positives, which is not desirable in this scenario. While F1 balances precision and recall, the scenario specifically prioritizes precision. AUC-ROC is a good general measure of performance but does not directly address the specific requirement of minimizing false positives.

NEW QUESTION # 282
A data scientist is building a model in Snowflake to predict customer churn. They have a dataset with features like 'age', 'monthly_spend', 'contract_length', and 'complaints'. The target variable is 'churned' (0 or 1). They decide to use a Logistic Regression model. However, initial performance is poor. Which of the following actions could MOST effectively improve the model's performance, considering best practices for Supervised Learning in a Snowflake environment focused on scalable and robust deployment?

- A. Ignore missing values in the dataset as the Logistic Regression model will handle it automatically without skewing the results.
- B. Implement feature scaling (e.g., StandardScaler or MinMaxScaler) on numerical features within Snowflake, before training the model. Leverage Snowflake's user-defined functions (UDFs) for transformation and then train the model.
- C. Increase the learning rate significantly to speed up convergence during training.
- D. Reduce the number of features by randomly removing some columns, as this always prevents overfitting.
- E. Fit a deep neural network with numerous layers directly within Snowflake without any data preparation, as this will automatically extract complex patterns.

Answer: B

Explanation:
Feature scaling is crucial for Logistic Regression. Features with different scales can disproportionately influence the model's coefficients. Snowflake UDFs allow for scalable data transformation within the platform. Increasing the learning rate excessively can lead to instability. Randomly removing features can remove important information. Deep neural networks require substantial tuning and resources and aren't always the best starting point and can have issues deploying inside of Snowflake. Ignoring missing values will negatively impact performance.

NEW QUESTION # 283
You have a table 'PRODUCT SALES in Snowflake with columns: 'PRODUCT (INT), 'SALE_DATE (DATE), 'SALES_AMOUNT (FLOAT), and 'PROMOTION FLAG' (BOOLEAN). You need to perform the following data preparation steps using Snowpark SQLAPI:

- A. Converting 'SALE_DATE to a quarterly representation (e.g., '2023-QI').
- B. Creating a new feature representing the percentage change in 'SALES_AMOUNT compared to the previous day for the same 'PRODUCT_ID. Handle the first day of each 'PRODUCT by setting 'SALES_GROWTH' to O.
- C. Creating a feature that returns 1 if there is a PROMOTION_FLAG of True and SALES_AMOUNT > 1000, and zero otherwise
- D. All of the above.
- E. Handling missing 'SALES_AMOUNT values by imputing them with the average 'SALES_AMOUNT' for the same 'PRODUCT_ID during the previous month. If there's no data for the previous month, use the overall average for that

Answer: D

Explanation:
All the described data preparation steps (A, B, C, and D) are common and relevant in feature engineering for time-series or sales data analysis. Imputing missing values using rolling averages, converting dates to categorical representations, calculating growth rates, and using flag-based transformations are all standard practices. The use of 'LEAD or 'LAG' window functions is essential for calculating , and handling edge cases (like the first day of a product's sales) is crucial for data integrity. A 'CASE statement or similar construct would be needed for the PROMOTION FLAG logic.

NEW QUESTION # 284

You're deploying a pre-built image classification model hosted on a REST API endpoint, and you need to integrate it with Snowflake to classify images stored in cloud storage accessible via an external stage named 'IMAGE STAGE. The API expects image data as a base64 encoded string in the request body. Which SQL query snippet demonstrates the correct approach for calling the external function 'CLASSIFY IMAGE and incorporating the base64 encoding?

```
○ SELECT CLASSIFY_IMAGE(FILE_FORMAT = (TYPE = 'CSV', FIELD_DELIMITER = ',', SKIP_HEADER = 1), @IMAGE_STAGE/image.jpg) FROM TABLE(RESULT_SCAN(LAST_QUERY_ID()));

○ SELECT CLASSIFY_IMAGE(SYSTEM$GET_FILE('@IMAGE_STAGE/image.jpg', 'BINARY')) FROM DUAL;

○ SELECT CLASSIFY_IMAGE(TO_BASE64(SYSTEM$GET_FILE('@IMAGE_STAGE/image.jpg', 'BINARY'))) FROM DUAL;

○ SELECT CLASSIFY_IMAGE(PARSE_JSON(TO_JSON(SYSTEM$GET_FILE('@IMAGE_STAGE/image.jpg', 'BINARY')))) FROM DUAL;

○ SELECT CLASSIFY_IMAGE(BLOB_TO_BASE64(SYSTEM$GET_FILE('@IMAGE_STAGE/image.jpg', 'BINARY'))) FROM DUAL;
```


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

Answer: C

Explanation:
Option C is correct. It uses 'SYSTEM$GET FILE(@IMAGE STAGE/image.jpg', to retrieve the image file as a binary object and then to encode it as a base64 string before passing it to the 'CLASSIFY_IMAGE external function. Option A is incorrect as it attempts to directly use a file format which is not relevant for sending the image content. Option B is incorrect because the image needs to be base64 encoded first. Option D is incorrect as it converts binary to JSON, which is not the required format. Option E is incorrect because BLOB TO BASE64' doesn't exists in Snowflake. TO BASE64 is correct method.

NEW QUESTION # 285
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