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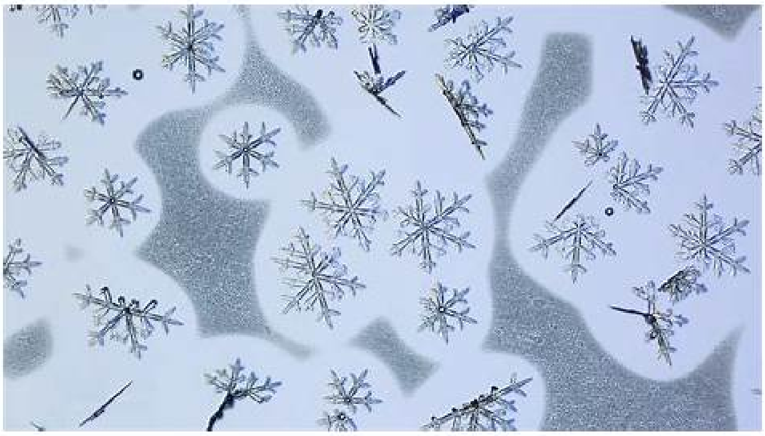

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Snowflake SnowPro Advanced: Data Scientist Certification Exam Sample Questions (Q282-Q287):

NEW QUESTION # 282
You are deploying a time series forecasting model in Snowflake. You need to log the performance metrics (e.g., MAE, RMSE) of the model after each prediction run to the Snowflake Model Registry. Which of the following steps are necessary to achieve this?

- A. You must create a custom logging solution outside of Snowflake using external services and then integrate those logs back into Snowflake via external functions and Model Registry APIs
- B. Create a separate table in Snowflake to store the performance metrics and use SQL "INSERT statements to log the

metrics after each prediction run.

- C. Leverage Snowflake's Event Tables to capture and store metrics data generated during model evaluation and prediction workflows and then access via stored procedures that log to the Model Registry.
- D. Use the method with the 'metrics' parameter to log the metrics directly during model registration.
- E. Use the method to log individual metrics to the Model Registry associated with a specific model version after the prediction run.

Answer: C,D,E

Explanation:
Options A, C and D are correct. Option A: You can log metrics during model registration using the method with the 'metrics parameter. Option C: The method allows logging individual metrics associated with a model version after the prediction run. Option D: Event Tables are a good way to track and audit model usage and performance, allowing for capturing those logs. Logging to separate tables can be done, but is not as elegant. The preferred method is to use the model registry's functions. Option E, Custom logging solution requires additional overhead and complexity, when Snowflake provides native model registry logging features.

NEW QUESTION # 283
You are tasked with preparing a Snowflake table named 'PRODUCT REVIEWS' for sentiment analysis. This table contains columns like 'REVIEW ID, 'PRODUCT ID', 'REVIEW TEXT', 'RATING', and 'TIMESTAMP'. Your goal is to remove irrelevant fields to optimize model training. Which of the following options represent valid and effective strategies, using Snowpark SQL, for identifying and removing irrelevant or problematic fields from the 'PRODUCT REVIEWS' table, considering both storage efficiency and model accuracy? Assume that the model only need review text and review id and the rating.

- A. Dropping rows with 'NULL' values in REVIEW_TEXT and then dropping the 'PRODUCT_ID' and 'TIMESTAMP' columns using 'ALTER TABLE. SQL: 'CREATE OR REPLACE TABLE PRODUCT REVIEWS AS SELECT FROM PRODUCT REVIEWS WHERE REVIEW TEXT IS NOT NULL; ALTER TABLE PRODUCT REVIEWS DROP COLUMN PRODUCT ID; ALTER TABLE PRODUCT REVIEWS DROP COLUMN TIMESTAMP;'
- B. Creating a VIEW that only selects the 'REVIEW _ TEXT , 'REVIEW_ID', and 'RATING' columns, effectively hiding the irrelevant columns from the model. SQL: 'CREATE OR REPLACE VIEW REVIEWS FOR ANALYSIS AS SELECT REVIEW TEXT, REVIEW ID, RATING FROM PRODUCT REVIEWS;'
- C. creating a new table 'REVIEWS_CLEANED containing only the relevant columns CREVIEW_TEXT , 'REVIEW_ID' , and 'RATING') using 'CREATE TABLE AS SELECT. SQL: 'CREATE OR REPLACE TABLE REVIEWS CLEANED AS SELECT REVIEW TEXT, REVIEW ID, RATING FROM PRODUCT REVIEWS;'
- D. Using 'ALTER TABLE DROP COLUMN' to directly remove 'TIMESTAMP column, which is deemed irrelevant for the sentiment analysis model. SQL: 'ALTER TABLE PRODUCT REVIEWS DROP COLUMN TIMESTAMP;'
- E. All of the above.

Answer: E

Explanation:
All of the options are valid strategies. A directly removes the irrelevant 'TIMESTAMP' column, saving storage. B creates a VIEW which offers a non-destructive way to filter columns. C creates a new table with only the necessary columns. D handles rows with missing review text and removes other irrelevant columns. Therefore, choosing 'All of the above' is the correct response. Depending on use case and downstream application we can make use of any of the options, hence more than one option is correct.

NEW QUESTION # 284
You are tasked with identifying fraudulent transactions in a large financial dataset stored in Snowflake using unsupervised learning. The dataset contains features like transaction amount, merchant ID, location, time, and user ID. You decide to use a combination of clustering and anomaly detection techniques. Which of the following steps and techniques would be MOST effective in achieving this goal while leveraging Snowflake's capabilities and minimizing false positives?

- A. Implement an Isolation Forest algorithm directly in SQL using complex JOINs and window functions to identify anomalies based on transaction volume and velocity.
- B. Perform K-means clustering on the entire dataset using all available features, then flag any transaction that falls outside of any cluster as fraudulent. Ignore any feature selection or engineering to simplify the process.
- C. Use a Snowflake Python UDF to perform feature selection, apply a combination of K-means clustering and anomaly detection techniques like Isolation Forest or Local Outlier Factor (LOF), and then score each transaction based on its likelihood of being fraudulent. Tune parameters and use a hold-out validation set to minimize false positives, using a Snowpark DataFrame to retrieve the data.

- D. Use only the 'transaction amount' feature and perform histogram-based anomaly detection in Snowflake SQL by identifying values outside of the common ranges, disregarding other potentially relevant information.
- E. Apply Principal Component Analysis (PCA) for dimensionality reduction, then use DBSCAN clustering to identify dense regions of normal transactions and flag any transaction that is not within a dense region as potentially fraudulent. After, review the anomalous data points.

Answer: C,E

Explanation:
Option B leverages PCA for dimensionality reduction, improving clustering performance and reducing noise, followed by DBSCAN, which is effective at identifying outliers. Option D provides a comprehensive approach utilizing feature engineering, a combination of clustering and anomaly detection techniques implemented via Python UDF within Snowflake, and proper validation to minimize false positives. These approaches address data preprocessing, algorithm selection, and model evaluation for effective fraud detection. Option A lacks feature selection/engineering and may lead to poor clustering. Option C is inefficient and impractical. Option E is too simplistic and ignores crucial information.

NEW QUESTION # 285
You are developing a machine learning model within a Snowflake UDF (User-Defined Function) written in Python. This UDF needs to access external Python libraries not included in the default Snowflake Anaconda channel. You've created a stage and uploaded the necessary file. You've successfully used 'conda create' and 'conda install --file requirements.txt' to create your environment locally, and subsequently zipped the environment. Now, what steps are essential to configure the Snowflake UDF to correctly use these external libraries from the stage? Select all that apply.

- A. Specify the stage path containing the zipped environment in the 'imports' clause of the 'CREATE OR REPLACE FUNCTION' statement using the symbol and specifying the zip file e.g., '@snowflake_packages/myenv.zip'.
- B. Set the 'PYTHON_VERSION' parameter of the 'CREATE OR REPLACE FUNCTION' statement to match the Python version used in your environment using e.g. 'PYTHON_VERSION = '3.8''.
- C. Install the packages directly into the Snowflake environment using 'CREATE OR REPLACE FUNCTION RETURNS VARCHAR ..: and a pip install command within the function.
- D. Create a ZIP file containing the Python environment and upload it to a Snowflake stage.
- E. Include the line 'import sys; sys._xoptions['snowflake_home'] = at the top of your UDF to point to the environment stage location.

Answer: A,B,D

Explanation:
Options B, C, and D are crucial. Snowflake UDFs can use custom environments created and uploaded as ZIP files to a stage. The 'imports' clause in the function definition must point to the ZIP file on the stage (Option C). The 'PYTHON_VERSION' must match the environment's Python version (Option D). Option B describes the process of creating a deployment-ready ZIP file. Option A's approach of manually setting 'sys._xoptions' is incorrect and not a recommended or supported method. Option E is not the standard way to manage external libraries; uploading a pre-built environment is more reliable and avoids dependency conflicts during UDF execution.

NEW QUESTION # 286
You are working with a large dataset of sensor readings stored in a Snowflake table. You need to perform several complex feature engineering steps, including calculating rolling statistics (e.g., moving average) over a time window for each sensor. You want to use Snowpark Pandas for this task. However, the dataset is too large to fit into the memory of a single Snowpark Pandas worker. How can you efficiently perform the rolling statistics calculation without exceeding memory limits? Select all options that apply.

- A. Use the 'grouped' method in Snowpark DataFrame to group the data by sensor ID, then download each group as a Pandas DataFrame to the client and perform the rolling statistics calculation locally. Then upload back to Snowflake.
- B. Break the Snowpark DataFrame into smaller chunks using 'sample' and 'unionAll', process each chunk with Snowpark Pandas, and then combine the results.
- C. Utilize the 'window' function in Snowpark SQL to define a window specification for each sensor and calculate the rolling statistics using SQL aggregate functions within Snowflake. Leverage Snowpark to consume the results of the SQL transformation.
- D. Increase the memory allocation for the Snowpark Pandas worker nodes to accommodate the entire dataset.
- E. Explore using Snowpark's Pandas user-defined functions (UDFs) with vectorization to apply custom rolling statistics logic directly within Snowflake. UDFs allow you to use Pandas within Snowflake without needing to bring the entire dataset client-

side.

Answer: C,E

Explanation:
Explanation:Options B and D are the most appropriate and efficient solutions for handling large datasets when calculating rolling statistics with Snowpark Pandas. Option B uses the 'window' function in Snowpark SQL. Leverage the 'window' function in Snowpark SQL to define a window specification for each sensor and calculate the rolling statistics using SQL aggregate functions within Snowflake. Option D uses Snowpark's Pandas UDFs. Snowpark's Pandas UDFs with vectorization allow you to bring the processing logic to the data within Snowflake, avoiding the need to move the entire dataset to the client-side and bypassing memory limitations. This approach is generally more scalable and performant for large datasets. Option A is inefficient as it retrieves groups of data from Snowflake to client side before creating the calculations before sending back to snowflake. Option C is correct but complex and not optimal. Option E is possible, but it's not a scalable solution and can be costly.

NEW QUESTION # 287
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