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Snowflake SnowPro Advanced: Data Scientist Certification Exam Sample Questions (Q35-Q40):

NEW QUESTION # 35
You are tasked with automating the retraining of a Snowpark ML model based on the performance metrics of the deployed model. You have a table 'MODEL PERFORMANCE that stores daily metrics like accuracy, precision, and recall. You want to automatically trigger retraining when the accuracy drops below a certain threshold (e.g., 0.8). Which of the following approaches using Snowflake features and Snowpark ML is the MOST robust and cost-effective way to implement this automated retraining pipeline?

- A. Implement a Snowpark ML model training script that automatically retrains the model every day, regardless of the performance metrics. This script will overwrite the previous model.
- B. Create a Snowflake task that runs every hour, queries the 'MODEL_PERFORMANCE table, and triggers a Snowpark ML model training script if the accuracy threshold is breached. The training script will overwrite the existing model.
- C. Implement an external service (e.g., AWS Lambda or Azure Function) that periodically queries the "MODEL_PERFORMANCE table using the Snowflake Connector and triggers a Snowpark ML model training script via the Snowflake API.
- D. Create a Dynamic Table that depends on the 'MODEL PERFORMANCE table and materializes when the accuracy is below the threshold. This Dynamic Table refresh triggers a Snowpark ML model training stored procedure. This stored procedure saves the new model with a timestamp and updates a metadata table with the model's details.
- E. Use a Snowflake stream on the 'MODEL_PERFORMANCE table to detect changes in accuracy, and trigger a Snowpark ML model training function using a PIPE whenever the accuracy drops below the threshold.

Answer: D

Explanation:
Option D is the most robust and cost-effective solution. Using a Dynamic Table ensures that retraining is triggered only when necessary (when accuracy drops below the threshold). The Dynamic Table's materialization event then kicks off a Snowpark ML model training stored procedure that automatically retrains the model. This stored procedure saves the new model with a timestamp and updates a metadata table, allowing for version control. This eliminates unnecessary retraining runs (cost savings) and provides full lineage of models. Option A can be wasteful as it retrains even if it's not required. Option B using Stream & Pipes doesn't trigger model re-training after data accuracy breach. Option C doesn't account for model performance leading to unnecessary retrains. Option E introduces external dependencies and complexity that are best avoided within the Snowflake ecosystem.

NEW QUESTION # 36
A data scientist is exploring customer purchase data in Snowflake to identify high-value customer segments. They have a table named 'CUSTOMER TRANSACTIONS with columns 'CUSTOMER ID', 'TRANSACTION_DATE', and 'PURCHASE_AMOUNT'. They want to calculate the interquartile range (IQR) of 'PURCHASE AMOUNT for each customer. Which SQL query using Snowsight is the most efficient and accurate way to calculate and display the IQR for each 'CUSTOMER ID?

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

Answer: E

Explanation:
Option E, using 'QUANTILE, is the most accurate way to calculate the IQR. 4)' returns an array representing the quartiles (0%, 25%, 50%, 75%, 100%). Subtracting the 25th percentile (index 1) from the 75th percentile (index 3) gives the IQR. Other options either approximate the percentiles (APPROX_PERCENTILE), calculate the range (MAX-MIN), or calculate standard deviation, none of which directly give the IQR. Option B while syntactically valid is less performant and returns the IQR on entire table not grouped by customer.

NEW QUESTION # 37
You are a data scientist working with a large dataset of customer transactions stored in Snowflake. You need to identify potential fraud using statistical summaries. Which of the following approaches would be MOST effective in identifying unusual spending patterns, considering the need for scalability and performance within Snowflake?

- A. Implement a custom UDF (User-Defined Function) in Java to calculate the interquartile range (IQR) for each customer's

transaction amounts and flag transactions as outliers if they are below QI - 1.5 IQR or above Q3 + 1.5 IQR.

- B. Sample a subset of the data, calculate descriptive statistics using Snowpark Python and the 'describe()' function, and extrapolate these statistics to the entire dataset.
- C. Export the entire dataset to a Python environment, use Pandas to calculate the average transaction amount and standard deviation for each customer, and then identify outliers based on a fixed threshold.
- D. Use Snowflake's native anomaly detection functions (if available, and configured for streaming) to detect anomalies based on transaction amount and frequency, grouped by customer ID.
- E. Calculate the average transaction amount and standard deviation for each customer using window functions in SQL. Flag transactions that fall outside of 3 standard deviations from the customer's mean.

Answer: D,E

Explanation:
Options A and C are the most effective and scalable. A leverages Snowflake's SQL capabilities and window functions for in-database processing, making it efficient for large datasets. C utilizes Snowflake's native anomaly detection capabilities (if available and configured), providing a built-in solution. Option B is not scalable due to data export limitations. Option D might be valid but can be less performant than SQL window functions. Option E uses sampling, which might not accurately represent the entire dataset's outliers and could lead to inaccurate fraud detection.

NEW QUESTION # 38
A data scientist is developing a fraud detection model using Snowpark ML on Snowflake. They have a feature engineering pipeline implemented as a Snowpark DataFrame transformation. The pipeline includes several complex UDFs. The data scientist observes that the pipeline execution is slow. What are the most effective techniques to optimize the feature engineering pipeline's performance in Snowpark?

- A. Rewrite Python UDFs as vectorized Python UDFs using the 'pandas' API within Snowpark to leverage batch processing.
- B. Reduce the size of the input DataFrame by sampling the data.
- C. Disable Snowpark's lazy evaluation by executing on the DataFrame after each transformation.
- D. Replace Python UDFs with Snowflake SQL UDFs where possible, as SQL UDFs often offer better performance due to Snowflake's optimization capabilities.
- E. Cache intermediate DataFrames using or 'persist()' to avoid recomputation of common transformations.

Answer: A,D,E

Explanation:
Caching intermediate results (B) prevents redundant calculations. Vectorized Python UDFs (C) using pandas enhance performance by processing data in batches. Snowflake SQL UDFs (E) can often outperform Python UDFs due to Snowflake's internal optimizations. Sampling (A) might reduce accuracy. Disabling lazy evaluation (D) negates the benefits of Snowpark's query optimization.

NEW QUESTION # 39
You have trained a machine learning model in Snowflake using Snowpark Python to predict customer churn. You want to deploy this model as a Snowflake User-Defined Function (UDF) for real-time scoring of new customer data arriving in a stream. The model uses several external Python libraries not available by default in the Anaconda channel. Which sequence of steps is the MOST efficient and correct way to deploy the model within Snowflake to ensure all dependencies are met?

- A. Create a Snowflake stage and upload the model file. Create a conda environment file ('environment.yml') specifying the dependencies. Upload the environment.yml file to the stage. Create the UDF using 'CREATE OR REPLACE FUNCTION' statement, referencing the stage and the environment.yml file in the 'imports' and 'packages' parameters, respectively. Snowflake will create a conda environment based on the environment.yml file during UDF execution.
- B. Package the model file and all dependencies into a single Python wheel file. Upload this wheel file to a Snowflake stage. Create the UDF using 'CREATE OR REPLACE FUNCTION' statement, referencing the stage and specifying the wheel file in the 'imports' parameter. Snowflake will automatically install the wheel during UDF execution.
- C. Create a virtual environment locally with all required dependencies installed. Package the entire virtual environment into a zip file. Upload the zip file to a Snowflake stage. Create the UDF using 'CREATE OR REPLACE FUNCTION' statement, referencing the stage and specifying the zip file in the 'imports' parameter. Snowflake will automatically extract the zip and use the virtual environment during UDF execution.
- D. Create a Snowflake stage, upload the model file and a 'requirements.txt' file listing the dependencies. Create the UDF using 'CREATE OR REPLACE FUNCTION' statement, referencing the stage and specifying the 'imports' parameter with

the model file and requirements.txt. Snowflake will automatically install the dependencies from the 'requirements.txt' file during UDF execution.

- E. Create a Snowflake stage, upload the model file and all dependency .py' files. Create the UDF using 'CREATE OR REPLACE FUNCTION' statement, referencing the stage and specifying the 'imports parameter with all the file names. Snowflake will interpret all .py' files as module for UDF execution.

Answer: B

Explanation:
Packaging the model and its dependencies into a single Python wheel file is the recommended and most efficient approach. Uploading the wheel to a stage and referencing it in the 'imports' parameter allows Snowflake to handle dependency resolution seamlessly. Options A and C assume Snowflake can directly install dependencies from a requirements.txt or environment.yml file, which is not directly supported. Option D is unnecessarily complex as it involves packaging an entire virtual environment. Option E will not handle complex external packages.

NEW QUESTION # 40
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