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Snowflake SnowPro Advanced: Data Scientist Certification Exam Sample Questions (Q45-Q50):

NEW QUESTION # 45

You are deploying a fraud detection model hosted on a third-party ML platform and accessing it via an external function in Snowflake. The model API has a strict rate limit of 10 requests per second. To prevent exceeding this limit and ensure smooth operation, what strategies could you implement within Snowflake, considering performance and cost implications? Select all that apply.

- A. Utilize Snowflake's built-in caching mechanism for the external function results. This reduces the number of calls to the external API for repeated input data.
- B. Implement a custom queueing system within Snowflake using temporary tables and stored procedures to batch requests

and send them to the external function at a controlled rate.

- C. Implement a retry mechanism within the external function definition to handle API rate limit errors (e.g., HTTP 429 errors) using exponential backoff.
- D. Implement a UDF (User-Defined Function) that sleeps for 0.1 seconds before each call to the external function. This guarantees a maximum rate of 10 requests per second.
- E. Scale up the Snowflake virtual warehouse to the largest size possible. This will allow for more concurrent requests without exceeding the rate limit.

Answer: A,B,C

Explanation:

Options B, C, and E are the correct strategies. Caching (B) reduces redundant calls. A queueing system (C) provides precise rate control but adds complexity. A retry mechanism with backoff (E) handles rate limit errors gracefully. Sleeping within a UDF (A) is inefficient and inaccurate, as it doesn't account for network latency or processing time. Scaling up the warehouse (D) might increase concurrency but won't directly address the per-second rate limit of the external API and could be cost-prohibitive.

NEW QUESTION # 46

You are building a predictive model on customer churn using Snowflake data'. You observe that the distribution of 'TIME SINCE LAST PURCHASE' is heavily left-skewed. Which of the following strategies would be MOST appropriate to handle this skewness before feeding the data into a linear regression model to improve its performance? (Select TWO)

- A. Apply a logarithmic transformation to the 'TIME SINCE LAST PURCHASE' column.
- B. Remove all records with 'TIME SINCE LAST PURCHASE' values below the mean.
- C. Standardize the 'TIME_SINCE_LAST_PURCHASE' column using Z-score normalization.
- D. Use a winsorization technique to cap extreme values in the 'TIME SINCE LAST PURCHASE' column at a predefined percentile (e.g., 99th percentile).
- E. Apply a square root transformation to the 'TIME_SINCE_LAST_PURCHASE' column.

Answer: D,E

Explanation:

For left-skewed data, a square root transformation (Option B) can help reduce the impact of smaller values and bring the distribution closer to normal. Winsorization (Option C) can mitigate the influence of extreme values on the left tail of the distribution, making the data more suitable for linear regression. Logarithmic transformation is more suitable for right-skewed data (Option A). Z-score normalization (Option D) centers the data around zero but doesn't change the skewness. Removing records below the mean (Option E) is generally not a good practice as it can introduce bias and lose valuable information.

NEW QUESTION # 47

You have deployed a machine learning model in Snowflake to predict customer churn. The model was trained on data from the past year. After six months of deployment, you notice the model's recall for identifying churned customers has dropped significantly. You suspect model decay. Which of the following Snowflake tasks and monitoring strategies would be MOST appropriate to diagnose and address this model decay?

- A. Back up the original training data to secure storage. Ingest all new data as it comes in. Retrain a new model and compare its performance with the backed-up training data.
- B. Establish a Snowflake pipe to continuously ingest feedback data (actual churn status) into a feedback table. Write a stored procedure to calculate performance metrics (e.g., recall, precision) on a sliding window of recent data. Create a Snowflake Alert that triggers when recall falls below a defined threshold.
- C. Implement a Shadow Deployment strategy in Snowflake. Route a small percentage of incoming data to both the existing model and a newly trained model. Compare the predictions from both models using a UDF that calculates the difference in predicted probabilities. Trigger an alert if the differences exceed a certain threshold.
- D. Use Snowflake's data sharing feature to share the model's predictions with a separate analytics team. Let them monitor the overall customer churn rate and notify you if it changes significantly.
- E. Create a Snowflake Task that automatically retrains the model weekly with the most recent six months of data. Monitor the model's performance metrics using Snowflake's query history to track the accuracy of the predictions.

Answer: B,C

Explanation:

Option B is the most comprehensive. It establishes a system for continuous monitoring of model performance using real-world feedback, and alerts you when performance degrades. Option E is also strong because it allows for direct comparison of a new model against the existing model in a production setting, identifying model decay before it significantly impacts performance. Options A and D are insufficient for monitoring as they lack real-world feedback loops for continuous assessment. Simply retraining frequently does not guarantee model improvements, and option C relies on manual intervention and lacks granular monitoring of the model's specific performance. Shadow Deployment is costly but more robust.

NEW QUESTION # 48

You've built a complex machine learning model using scikit-learn and deployed it as a Python UDF in Snowflake. The UDF takes a JSON string as input, containing several numerical features, and returns a predicted probability. However, you observe significant performance issues, particularly when processing large batches of data'. Which of the following approaches would be MOST effective in optimizing the performance of this UDF in Snowflake?

- A. Use Snowflake's vectorized UDF feature to process data in micro-batches, minimizing the overhead of repeated Python interpreter initialization.
- B. Increase the warehouse size to improve the overall compute resources available for UDF execution.
- C. Rewrite the UDF in Java or Scala to leverage the JVM's performance advantages over Python in Snowflake.
- D. Serialize the scikit-learn model using 'joblib' instead of 'pickle' for potentially faster deserialization within the UDF.
- E. Pre-process the input data outside of the UDF using SQL transformations, reducing the amount of data passed to the UDF and simplifying the Python code.

Answer: A,E

Explanation:

Vectorized UDFs (A) are designed specifically for performance optimization by processing data in batches, reducing overhead. Pre-processing data using SQL (D) can significantly reduce the complexity and data volume handled by the UDF. While 'joblib' (B) might offer a slight improvement, it's less impactful than vectorization. Increasing warehouse size (C) helps but doesn't address the underlying inefficiencies of repeated interpreter initialization. Rewriting in Java/Scala (E) is a viable option but requires significant effort and might not be necessary if vectorization and pre-processing are sufficient.

NEW QUESTION # 49

You are building a data science pipeline in Snowflake to perform time series forecasting. You've decided to use a Python UDTF to encapsulate the forecasting logic using a library like 'Prophet'. The UDTF needs to access historical data to train the model and generate forecasts. The data is stored in a Snowflake table named 'SALES DATA' with columns 'DATE' and 'SALES'. Which of the following approaches is/are most efficient and secure for accessing the 'SALES DATA' table from within the UDTF during model training?

- A. Use the Snowpark API within the UDTF to query the 'SALES DATA' table directly, leveraging the existing Snowflake session context. This requires no additional credentials management.
- B. Bypass Snowflake entirely and load data from S3 stage into a Pandas dataframe.
- C. Create a view on top of 'SALES DATA' and grant access to the UDTF's owner role to the view. Then, query the view using Snowpark within the UDTF.
- D. Use the 'snowflake.connector' to connect to Snowflake using a dedicated service account with read-only access to the 'SALES DATA' table. Store the service account credentials securely in Snowflake secrets and retrieve them within the UDTF.
- E. Pass the entire 'SALES DATA' table as a Pandas DataFrame to the UDTF as an argument. This approach is suitable for smaller datasets. Do not partition the data frame.

Answer: A,C

Explanation:

Options C and D provide the most efficient and secure ways to access data within a Snowflake UDTF. C leverages the Snowpark API, which allows you to query Snowflake tables directly using the existing session context, eliminating the need for managing separate credentials. This is the recommended approach for accessing Snowflake data from within UDTFs. Option D is also viable, as creating a view provides an abstraction layer and allows you to control access to specific columns or rows of the underlying table. Option A, using 'snowflake.connector' and managing credentials, is less desirable due to the increased complexity and security risks associated with credential management. Option B can be suitable for smaller data sets, but it's very inefficient approach. Option E is not acceptable as it is not secure.

NEW QUESTION # 50

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