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Snowflake SnowPro Advanced: Data Scientist Certification Exam Sample

Questions (Q79-Q84):

NEW QUESTION # 79

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. 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.
- B. 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.
- C. 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.
- D. 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.
- E. 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.

Answer: A,B

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 # 80

You are tasked with feature engineering a dataset containing customer transaction data stored in a Snowflake table named 'CUSTOMER TRANSACTIONS'. This table includes columns like 'CUSTOMER ID', 'TRANSACTION DATE', and 'TRANSACTION AMOUNT'. You need to create a new feature representing the 'Recency' of the customer, which is the number of days since their last transaction. Using Snowpark Pandas, which of the following code snippets will correctly calculate the Recency feature as a new column in a Snowpark DataFrame?

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

Answer: E

Explanation:

Option E is the only fully correct approach. It correctly groups by 'CUSTOMER_ID' and finds the maximum transaction date. It calculates the Recency by using 'datediff', and casting 'LAST_TRANSACTION_DATE' with Without the cast to , it is possible to run into error in 'datediff' function. 'datediff' function will cause issues when used on a timestamp. The 'recency_sdf' dataframe will only have customer_id and recency.

NEW QUESTION # 81

You are using Snowpark to build a collaborative filtering model for product recommendations. You have a table 'USER_ITEM INTERACTIONS' with columns 'USER ID', 'ITEM ID', and 'INTERACTION TYPE'. You want to create a sparse matrix representation of this data using Snowpark, suitable for input into a matrix factorization algorithm. Which of the following code snippets best achieves this while efficiently handling large datasets within Snowflake?

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

Answer: C

Explanation:

Option B is the most efficient and scalable approach. It utilizes Snowpark's 'pivot' function for efficient aggregation and sparse matrix creation directly within Snowflake's engine. Option A pulls the entire dataset into pandas, which is inefficient for large datasets. Options C and D are not complete as option C does not correctly populate values in the sparse matrix while creating empty matrix without any values, and D attempts a cross join which can lead to extreme performance issues. Option E, although similar to B, is incorrect because the pivot() function does not accept the values parameter. It's already present in agg function.

NEW QUESTION # 82

You have built and deployed a model to predict the likelihood of loan default using Snowpark and deployed as a Snowflake UDF. You are using a separate Snowflake table 'LOAN APPLICATIONS' as input, which contains current applicant data. After several weeks in production, you observe that the model's accuracy has significantly dropped. The original training data was collected during a period of low interest rates and stable economic conditions. Which of the following strategies are the MOST effective for identifying potential causes of this performance degradation and determining if a model retrain is necessary, in the context of Snowflake?

- A. Monitor the model's precision and recall using a dedicated monitoring dashboard built on top of the model's predictions and actual loan outcomes (once available). Create a Snowflake alert that triggers when either metric falls below a predefined threshold.
- B. Compare the distribution of input features in the 'LOAN_APPLICATIONS' table to the distribution of the features in the original training dataset using Snowflake's statistical functions (e.g., APPROX_COUNT DISTINCT, &AVG, 'STDDEV'). Significant deviations indicate data drift.
- C. Re-run the original model training code with the 'LOAN_APPLICATIONS' table as input and compare the resulting model coefficients to the coefficients of the deployed model. Significant differences indicate model decay.
- D. Assume the model is no longer valid due to changing economic conditions and immediately retrain the model with the latest available data without further investigation.
- E. Regularly sample data from the 'LOAN_APPLICATIONS' table and manually compare it to the original training data. This provides a qualitative assessment of potential changes.

Answer: A,B

Explanation:

Options A and B are the most effective. A identifies data drift by comparing feature distributions, indicating potential changes in the input data. B monitors performance metrics and triggers alerts based on predefined thresholds. C is too manual and inefficient. D isn't appropriate, re-running model training would produce a new model not identifying degradation of current one. E is premature; further investigation is necessary. Assessing the performance is important after significant drops found for retraining of the model with latest data.

NEW QUESTION # 83

You are using Snowflake Cortex to build a customer support chatbot that leverages LLMs to answer customer questions. You have a knowledge base stored in a Snowflake table. The following options describe different methods for using this knowledge base in conjunction with the LLM to generate responses. Which of the following approaches will likely result in the MOST accurate, relevant, and cost-effective responses from the LLM?

- A. Partition your database by different subject matter and then query the specific partitions for your information.
- B. Fine-tune the LLM on the entire knowledge base. Train a custom LLM model specifically on the knowledge base data.
- C. Directly prompt the LLM with the entire knowledge base content for each customer question. Concatenate all knowledge base entries into a single string and include it in the prompt.
- D. Use Snowflake Cortex's 'COMPLETE' function without any external knowledge base. Rely solely on the LLM's pre-trained knowledge.
- E. Use Retrieval-Augmented Generation (RAG). Generate vector embeddings for the knowledge base entries, perform a similarity search to find the most relevant entries for each customer question, and include those entries in the prompt.

Answer: E

Explanation:

RAG (Retrieval-Augmented Generation) is the most effective approach (C). It combines the benefits of LLMs with the ability to incorporate external knowledge. Prompting with the entire knowledge base (A) is inefficient and might exceed context limits. Relying solely on the pre-trained LLM (B) won't leverage your specific knowledge base. Fine-tuning (D) is expensive and requires significant effort and only partitioning (E) won't help.

NEW QUESTION # 84

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