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Snowflake SnowPro Advanced: Data Scientist Certification Exam Sample

Questions (Q113-Q118):

NEW QUESTION # 113
You've built a customer churn prediction model in Snowflake, and are using the AUC as your primary performance metric. You notice that your model consistently performs well (AUC > 0.85) on your validation set but significantly worse (AUC < 0.7) in production. What are the possible reasons for this discrepancy? (Select all that apply)

- A. Your training and validation sets are not representative of the real-world production data due to sampling bias.
- B. Your model is overfitting to the validation data. This causes to give high performance on validation set but less accurate in the real world.
- C. The AUC metric is inherently unreliable and should not be used for model evaluation.
- D. There's a temporal bias: the customer behavior patterns have changed since the training data was collected.
- E. The production environment has significantly more missing data compared to the training and validation environments.

Answer: A,B,D,E

Explanation:
A, B, C, and D are all valid reasons for performance degradation in production. Sampling bias (A) means the training/validation data doesn't accurately reflect the production data. Temporal bias (B) arises when customer behavior changes over time. Overfitting (C) leads to good performance on the training/validation set but poor generalization to new data. Missing data (D) can negatively impact the model's ability to make accurate predictions. AUC is a reliable metric, especially when combined with other metrics, so E is incorrect.

NEW QUESTION # 114
You're working with a Snowflake stage named that contains several versions of your machine learning model, named 'model_vl .pkl' , 'model_v2.pkl' , and You want to programmatically list all files in the stage and retrieve the creation time of the latest version (i.e., using SnowSQL. Which of the following approaches is most efficient and correct?

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

Answer: A

Explanation:
Option C is the most efficient and correct solution. Snowflake's 'DIRECTORY table function provides metadata about files in a stage, including 'relative_path', 'size', and By querying this table and ordering by in descending order with 'LIMIT 1 , you can directly retrieve the information for the latest file without resorting to external tools like 'awk' or 'grep'. The '-csv' flag ensures that the output is easily parsable. Options A and D rely on parsing the output of the command, which is less reliable and efficient. Option B downloads file and uses system 'IS command. Option E gives information about stage, not files.

NEW QUESTION # 115
You are tasked with deploying a real-time fraud detection model in Snowflake. The model requires very low latency (under 100ms) to prevent fraudulent transactions. The input data is streamed into a Snowflake table. You are considering using either a Scalar or Vectorized Python UDF for scoring. Which of the following approaches and considerations are MOST critical for achieving the desired performance and reliability? Assume the model itself is computationally inexpensive. Select all that apply.

- A. Pre-load the model into a static variable within the UDF code, ensuring it's only loaded once per worker node.
- B. Utilize Snowflake's Materialized Views to pre-compute frequently used features, reducing the amount of data the UDF needs to process.
- C. Use a Vectorized UDF with a small 'MAX BATCH_SIZE to minimize latency while still leveraging vectorization benefits.

- D. Use a Scalar UDF because it has lower overhead per invocation compared to a Vectorized UDF when processing individual transactions.
- E. Configure Snowflake's Auto-Suspend feature to aggressively suspend the warehouse when idle, to minimize costs.

Answer: A,B,C

Explanation:
For real-time fraud detection with low latency requirements, careful optimization is crucial. Vectorized UDFs (B) can be faster than scalar UDFs even with small batch sizes because of the reduced overhead per record compared to scalar UDFs. Pre-loading the model (C) is essential to avoid repeated model loading overhead. Using Materialized Views (D) to pre-compute features reduces the data the UDF needs to handle, improving performance. While scalar UDFs can have lower overhead per invocation, vectorized UDFs optimized with proper will generally provide better performance. Aggressively auto-suspending the warehouse (E) is counterproductive as it introduces latency due to warehouse startup time.

NEW QUESTION # 116
You're developing a fraud detection system in Snowflake. You're using Snowflake Cortex to generate embeddings from transaction descriptions, aiming to cluster similar fraudulent transactions. Which of the following approaches are MOST effective for optimizing the performance and cost of generating embeddings for a large dataset of millions of transaction descriptions using Snowflake Cortex, especially considering the potential cost implications of generating embeddings at scale? Select two options.

- A. Create a materialized view containing pre-computed embeddings for all transaction descriptions.
- B. Generate embeddings using snowflake-cortex-embed-text function, using the OPENAI embedding model
- C. Use a Snowflake Task to incrementally generate embeddings only for new transactions that have been added since the last embedding generation run.
- D. Generate embeddings on the entire dataset every day to capture all potential fraudulent transactions and ensure the model is always up-to-date.
- E. Implement caching mechanism based on a hash of transaction description if transaction description does not change then no need to recompute the emebeddings again.

Answer: C,E

Explanation:
Option B is a better approach compared to option A to generate embeddings because its incrementally generate embeddings for new transactions. Option E is also an important approach where if transaction description remains same for the embeddings will not be re-computed. Materialized view is not suited for API integrations like those using Snowflake Cortex. Option D is technically correct, but doesn't address the optimization and cost concerns. Option A Regenerating embeddings for the entire dataset daily is computationally expensive and can quickly lead to high costs, especially with Snowflake Cortex. The best approach is to use caching and compute only for a new transaction description. So correct answer is B and E.

NEW QUESTION # 117
You've developed a binary classification model using Snowpark ML to predict customer subscription renewal (0 for churn, 1 for renew). You want to visualize feature importance using a permutation importance technique calculated within Snowflake. You perform feature permutation and calculate the decrease in model performance (e.g., AUC) after each permutation. Suppose the following query represents the results of this process:

```
SELECT feature_name, mean_auc_decrease FROM feature_importance_results ORDER BY mean_auc_decrease DESC;
```

The 'feature_importance_results' table contains the following data:

```
feature_name | mean_auc_decrease -------------|------------------- contract_length | 0.25 monthly_charges | 0.15 data_usage | 0.05 support_calls | 0.02
```

Based on this output, which of the following statements are the MOST accurate interpretations regarding feature impact and model behavior?

- A. The 'support_calls' feature is the least important feature; removing it entirely from the model will have little impact on its AUC performance.
- B. The 'contract_length' feature is the most important feature for the model's predictive performance; shuffling it causes the largest drop in AUC.
- C. Permutation importance only reveals the importance of features within the current model. Different models trained with different features or algorithms might have different feature rankings.
- D. The 'contract_length' and 'monthly_charges' features are equally important.
- E. Increasing the 'contract_length' for customers will always lead to a higher probability of renewal. However, there could be correlation between contract length and monthly charges.

Answer: A,B,C

Explanation:
Option A is correct because permutation importance measures the decrease in model performance after a feature is randomly shuffled. A larger decrease indicates a higher importance. Option B is correct; a small 'mean_auc_decrease' for 'support_calls' indicates it has minimal impact, implying its removal won't drastically affect AUC. Option E is correct as permutation importance is model-specific and dataset-specific. The features considered important may vary across model types or even the samples used in training. Option C is incorrect. 0.25 is not equivalent to 0.15. Option D is incorrect because permutation importance doesn't directly translate to a causal relationship between feature values and the target variable (renewal). There could be confounding factors or non-linear relationships.

NEW QUESTION # 118
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