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Snowflake SnowPro Advanced: Data Scientist Certification Exam Sample Questions (Q95-Q100):

NEW QUESTION # 95
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, 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.

- B. 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.
- 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 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.
- E. 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.

Answer: E

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 # 96
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:

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 'contract_length' feature is the most important feature for the model's predictive performance; shuffling it causes the largest drop in AUC.
- B. 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.
- C. The 'support_calls' feature is the least important feature; removing it entirely from the model will have little impact on its AUC performance.
- D. 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.
- E. The 'contract_length' and 'monthly_charges' features are equally important.

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 # 97
You are building a model deployment pipeline using a CI/CD system that connects to your Snowflake data warehouse from your external IDE (VS Code) and orchestrates model training and deployment. The pipeline needs to dynamically create and grant

privileges on Snowflake objects (e.g., tables, views, warehouses) required for the model. Which of the following security best practices should you implement when creating and granting privileges within the pipeline?

- A. Grant the ' SYSADMIN' role to the service account used by the pipeline to ensure it has sufficient privileges.
- B. Grant the 'OWNERSHIP' privilege on all objects to the service account so it can perform any operation.
- C. Hardcode the credentials of a highly privileged user (e.g., a user with the SECURITYADMIN role) in the pipeline script for authentication.
- D. Use the role within the pipeline script to create and grant all necessary privileges.
- E. Create a custom role with minimal required privileges to perform only the necessary operations for the pipeline, and grant this role to a dedicated service account used by the pipeline.

Answer: E

Explanation:
The principle of least privilege dictates that the pipeline should only have the minimum necessary privileges to perform its tasks. Creating a custom role with only the required privileges and granting it to a dedicated service account is the most secure approach. Using 'ACCOUNTADMIN' (Option A) or 'SYSADMIN' (Option C) grants excessive privileges. Hardcoding credentials (Option D) is a major security vulnerability. Granting 'OWNERSHIP (Option E) is generally not necessary and grants excessive control. This follows the principle of least privilege which is essential for secure Snowflake deployments. A dedicated role ensures that the pipeline cannot inadvertently perform actions outside of its intended scope.

NEW QUESTION # 98

You are tasked with developing a multi-class image classification model to categorize product images stored in Snowflake external stage. The categories are 'Electronics', 'Clothing', 'Furniture', 'Books', and 'Food'. You plan to use a pre-trained Convolutional Neural Network (CNN) model and fine-tune it using your dataset. However, you're facing challenges in efficiently loading and preprocessing the image data within the Snowflake environment before feeding it to your model. Which of the following approaches would be MOST efficient for image data loading and preprocessing in Snowflake, minimizing data movement and leveraging Snowflake's scalability, for a large dataset exceeding 1 TB of images?

- A. Write a Python User-Defined Function (UDF) that loads each image from the external stage directly into memory, performs preprocessing (resizing, normalization), and returns the processed image data. The UDF is then called in a SQL query to process the image data.
- B. Download all the images from the external stage to a local machine, preprocess them using a standard Python library like OpenCV, and then upload the processed data back into Snowflake as a table for model training.
- C. Create a Snowflake Stream to continuously ingest new images into a Snowflake table. Use a task to periodically trigger a Python UDF that preprocesses the newly ingested images and stores them in another table for model training.
- D. Utilize Snowflake's external function integration with AWS Lambda to preprocess images as they are uploaded to S3, storing the preprocessed data back in S3 and creating an external table pointing to the preprocessed data.
- E. Use Snowflake's Snowpark to read images from the external stage into a Snowpark DataFrame. Then, implement image preprocessing using Snowpark DataFrame operations, such as resizing and normalization, within the DataFrame transformations before sending the data to the model.

Answer: D,E

Explanation:
Option B (Snowpark) leverages Snowflake's data processing capabilities within the Snowflake environment, avoiding unnecessary data movement. Snowpark allows you to perform DataFrame operations directly on the data stored in Snowflake, making it an efficient way to preprocess large datasets. Option E (External functions with Lambda) is also very efficient as it preprocesses data outside of Snowflake upon ingestion, minimizing resource utilization inside Snowflake. Options A, C, and D are less efficient. Option A might lead to memory limitations with large images. Option C requires significant data transfer and manual processing. Option D introduces unnecessary complexity with streams and tasks for an initial large dataset.

NEW QUESTION # 99

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?

```
snowsql -q "LIST @my_model_stage;" | awk '{print $1, $5}' | sort | tail -n 1
snowsql -q "GET @my_model_stage/model_v3.pkl file:///tmp/model_v3.pkl;" && ls -l /tmp/model_v3.pkl | awk '{print $6, $7, $8}'
snowsql -q "SELECT relative_path, size, last_modified FROM DIRECTORY('@my_model_stage') ORDER BY last_modified DESC LIMIT 1;" --csv
snowsql -q "LIST @my_model_stage;" > /tmp/stage_contents.txt && cat /tmp/stage_contents.txt | grep 'model_v3.pkl' | awk '{print $3}'
snowsql -q "SHOW STAGES LIKE 'my_model_stage'; DESC STAGE my_model_stage;"
```

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

Answer: C

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 # 100
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