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Snowflake SnowPro Advanced: Data Scientist Certification Exam Sample Questions (Q173-Q178):

NEW QUESTION # 173

You are tasked with deploying a fraud detection model in Snowflake using the Model Registry. The model is trained on a dataset that is updated daily. You need to ensure that your deployed model uses the latest approved version and that you can easily roll

back to a previous version if any issues arise. Which of the following approaches would provide the most robust and maintainable solution for model versioning and deployment, considering minimal downtime during updates and rollback?

- A. Use Snowflake Tasks to periodically refresh a table containing the latest model weights. The UDF directly queries this table for predictions.
- B. Register each new model version in the Snowflake Model Registry and promote the desired version to 'PRODUCTION' stage. Update a single UDF that dynamically fetches the model based on the 'PRODUCTION' stage metadata.
- C. Deploy a new Snowflake UDF referencing the model file directly in cloud storage every time the model is retrained. Rely on cloud storage versioning for rollback.
- D. Store all model versions within a single model registry entry without versioning, overwriting the existing file with each new training run.
- E. Create multiple Snowflake UDFs, each corresponding to a different model version. Manually switch the active UDF by updating application code when a new model is deployed.

Answer: B

Explanation:

Option B provides the most robust and maintainable solution. Registering each model version in the Snowflake Model Registry allows for easy tracking and rollback. Promoting the desired version to 'PRODUCTION' and dynamically fetching the model in a UDF based on this metadata ensures minimal downtime during updates and rollbacks. Option A relies on cloud storage versioning, which is less integrated with Snowflake's metadata management. Option C requires manual UDF switching, which is error-prone. Option D doesn't utilize the Model Registry effectively. Option E eliminates the benefits of version control.

NEW QUESTION # 174

You have a Snowflake Model Registry set up and are managing multiple versions of a machine learning model. You want to programmatically retrieve a specific version of the model and load it for inference within a Snowflake Snowpark Python UDE. Assume your registry name is 'my_registry', the model name is 'credit_risk_model', and you want to retrieve version 'v2'. How would you achieve this using Snowpark Python?

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

Answer: A

Explanation:

Option A correctly uses the method to directly load the model into memory for inference. This is the intended method for retrieving and using models managed by the Snowflake Model Registry. Option B uses 'joblib.load' which bypasses the Model Registry completely after getting the path. Option C is suitable if the model was trained using MLFlow, not generic scikit learn. Option D is an imaginary command not present in Model Registry and Option E involves calling udf to load and that is not right way to programmatically load the model from registry and do inference with it.

NEW QUESTION # 175

You are building a model training pipeline in Snowflake using Snowpark Python. You want to leverage a pre-trained model from Hugging Face Transformers for a text classification task, fine-tuning it with your own labeled data stored in a Snowflake table named 'training_data'. You've chosen the 'transformers' library and plan to use a 'transformers.pipeline' for inference. Which of the following code snippets, when integrated into your Snowpark Python application, will correctly download the pre trained model and tokenizer, prepare the data, perform fine-tuning, and then save the fine-tuned model to a Snowflake stage?

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

Answer: D

Explanation:

The correct answer is B. It correctly uses the 'transformers' library with Snowpark Python. It downloads the model and tokenizer using and 'AutoTokenizer.from_pretrained'. TrainingArguments are configured with output_dir and evaluation_strategy. It reads training data using session.table. Trainer properly configured and finally Trainer saves the trained model in specified 'stage_name'. Option A is incorrect because it missing 'TrainingArgumentS configuration and uses general function, which may not be optimal for the Trainer setup. Option C is incorrect because incorrect use case. Option D and E is incorrect because 'TrainingArguments' output_dir is local folder that cannot be written by Trainer.

NEW QUESTION # 176

You are analyzing customer churn for a telecommunications company. You have a Snowflake table called 'CUSTOMER_ACTIVITY' with columns 'CUSTOMER ID', 'CALL DURATION_SUM' (total call duration in minutes), 'DATA USAGE GB' (total data usage in GB), 'CONTRACT LENGTH MONTHS', and 'CHURNED' (boolean indicating whether the customer churned). You want to understand the relationship between these features and churn. Specifically, you want to visualize the distribution of 'CALL DURATION SUM' for churned and non-churned customers. Which of the following visualizations, combined with appropriate Snowflake SQL to prepare the data, would BEST illustrate the relationship between 'CALL DURATION SUM' and 'CHURNED'?

- A. A pie chart showing the percentage of churned and non-churned customers, with no consideration of 'CALL DURATION SUM'
- B. A scatter plot with on the x-axis and 'CHURNED' (0 or 1) on the y-axis, generated directly from the table using an external visualization tool connected to Snowflake.
- C. A line chart plotting the average 'CALL DURATION SUM' over time, ignoring the 'CHURNED' status.
- D. A histogram of 'CALL DURATION SUM' for churned customers and a separate histogram of 'CALL DURATION SUM' for non-churned customers, generated using an external visualization tool connected to Snowflake, after preparing the data using a CTE (Common Table Expression) in Snowflake to categorize customers by churn status.
- E. A box plot with 'CHURNED' on the x-axis and 'CALL DURATION SUM' on the y-axis, generated using an external visualization tool connected to Snowflake, after preparing the data using a CTE (Common Table Expression) in Snowflake to categorize customers by churn status.

Answer: E

Explanation:

Option C is the best choice- A box plot effectively visualizes the distribution of 'CALL DURATION SUM' for each 'CHURNED' category (churned and non-churned). It shows the median, quartiles, and outliers, allowing for a clear comparison of the distribution of call durations between the two groups. The CTE allows for any required aggregation or filtering before sending the data to the visualization tool- A scatter plot (option A) is not ideal for visualizing distributions. Histograms (option B) can work, but box plots are often more concise and informative for comparing distributions across groups. A pie chart (option D) ignores 'CALL DURATION SUM'- A line chart (option E) ignores individual customers and time, losing the ability to relate 'CALL DURATION SUM' and 'CHURNED' at the customer level.

NEW QUESTION # 177

You are using Snowflake Cortex to perform sentiment analysis on customer reviews stored in a table called 'CUSTOMER_REVIEWS'. The table has a column containing the text of each review. You want to create a user-defined function (UDF) to extract sentiment score between the range of -1 to 1 using the 'snowflake_cortex.sentiment' function in Snowflake Cortex. Which of the following UDF definitions would correctly implement this, allowing it to be called directly on the column?

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

Answer: E

Explanation:

The 'snowflake_cortex.sentiment' function returns a VARIANT containing the sentiment score and sentiment label. To extract the sentiment score as a float, you need to access the 'sentiment_score' field and cast it to FLOAT or NUMBER data type using Option D does this correctly, using the Snowflake's preferred casting syntax. Option A return type is incorrect, where it returns the Variant instead of FLOAT. Option B return type is correct but it doesn't cast the result to Float, which is not correct syntax as result is

VARIANT. Option C is incorrect because of TO_NUMBER function. Option E result is the SENTIMENT Label instead sentiment score.

NEW QUESTION # 178

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