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Snowflake SnowPro Advanced: Data Scientist Certification Exam Sample Questions (Q175-Q180):

NEW QUESTION # 175

You are working with a dataset in Snowflake containing customer reviews stored in a 'REVIEWS' table. The 'SENTIMENT SCORE' column contains continuous values ranging from -1 (negative) to 1 (positive). You need to create a new column, 'SENTIMENT CATEGORY', based on the following rules: 'Negative': 'SENTIMENT SCORE < -0.5' 'Neutral': -0.5 'SENTIMENT SCORE 0.5 'Positive': 'SENTIMENT SCORE > 0.5' You also want to binarize this 'SENTIMENT CATEGORY'

column into three separate columns: 'IS NEGATIVE', 'IS NEUTRAL', and 'IS POSITIVE'. Which of the following SQL statements correctly implements both the categorization and subsequent binarization?

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

Answer: A,C

Explanation:

Options B and E are correct. Option B correctly uses a CTE to first categorize the sentiment and then perform one-hot encoding using the 'IFF' function. This approach is efficient and readable. Option E correctly categorizes and implements one-hot encoding using Boolean expressions and casting them to integers (0 or 1). Option A attempts to perform the one-hot encoding in the same SELECT statement as the categorization, which will result in error. Because it is referencing a column it just defined, so it won't find it. Option C is incorrect because it uses both WHEN SENTIMENT SCORE < -0.5 THEN 'Negative' and 'WHEN SENTIMENT SCORE BETWEEN -0.5 AND 0.5 THEN 'Neutral'" which could include duplicates. Option D is incorrect, because it includes 'ELSE 'Unknown'" that is not needed, as it should only be three rules.

NEW QUESTION # 176

You are developing a Snowflake Native App that leverages Snowflake Cortex for text summarization. The app needs to process user-provided text input in real-time and return a summarized version. You want to expose this functionality as a secure and scalable REST API endpoint within the Snowflake environment. Which of the following strategies are MOST suitable for achieving this, considering best practices for security and performance?

- A. Develop a Snowflake Native App that includes a Java UDF that calls 'SNOWFLAKE.CORTEX.SUMMARIZE' and expose a REST API using Snowflake's built-in REST API capabilities within the Native App framework.
- B. Utilize a Snowflake Stored Procedure written in SQL that invokes the 'SNOWFLAKE.CORTEX.SUMMARIZE' function, and then create a Snowflake API Integration to expose the stored procedure as a REST endpoint.
- C. Develop a Snowflake Native App containing a Python UDF that calls 'SNOWFLAKE.CORTEX.SUMMARIZE' function, and expose it as a REST API endpoint using Snowflake's API Integration feature within the app package.
- D. Write a Snowflake Stored Procedure using Javascript to invoke the 'SNOWFLAKE.CORTEX.SUMMARIZE' function, deploy the procedure to a Snowflake stage, and then trigger it via an AWS Lambda function integrated with Snowflake.
- E. Create a Snowflake External Function using Python that directly calls the 'SNOWFLAKE.CORTEX.SUMMARIZE' function and expose this function via a REST API gateway outside of Snowflake.

Answer: B,C

Explanation:

Options B and E are the most suitable. B: Using a stored procedure and API integration is a secure and standard way to expose Snowflake functionality as a REST API. The API Integration handles authentication and authorization within the Snowflake environment. E: Snowflake Native App containing a Python UDF is correct as using Snowflake's API integration is appropriate way to expose the endpoint as REST API with secure connectivity. Option A: Directly calling Cortex using external function and exposing it outside of Snowflake is not as secure as it requires managing authentication and authorization outside of Snowflake. Option C: Java UDF can be used but using snowflake API is not recommended. Option D: Deploying stored procedures to a stage and triggering them with Lambda is more complex and less secure compared to using API Integrations within Snowflake.

NEW QUESTION # 177

You are building a churn prediction model for a telecommunications company using Snowflake and Snowpark ML. You have trained a Gradient Boosting Machine (GBM) model and want to understand the feature importance to identify key drivers of churn. You've used SHAP (SHapley Additive exPlanations) values to explain individual predictions. Given a customer with a high churn risk, you observe that the 'monthly_charges' feature has a significantly large negative SHAP value for that specific prediction. Which of the following statements best interprets this observation in the context of feature impact?

- A. The negative SHAP value suggests 'monthly_charges' interacts with other features. Its precise impact is conditional and cannot be generalized without further analysis of feature interaction effects with SHAP values.
- B. Increasing 'monthly_charges' for this customer is likely to decrease their probability of churning.
- C. The negative SHAP value indicates that 'monthly_charges' is negatively correlated with all customers' churn probability,

irrespective of their individual profile.

- D. The 'monthly_charges' feature has no impact on the customer's churn probability.
- E. Increasing 'monthly_charges' for this customer is likely to increase their probability of churning.

Answer: E

Explanation:

A negative SHAP value for a specific prediction indicates that the feature's value pushed the prediction lower compared to the average prediction. In the context of churn, a lower prediction means a higher probability of churning. Thus, an increase in 'monthly_charges' for this specific customer, given their other features, is likely to increase their churn probability. Option E is partially correct as feature interactions are important but B is the best immediate interpretation.

NEW QUESTION # 178

You are working with a large dataset in Snowflake and need to build a machine learning model using scikit-learn in Python. You want to leverage Snowflake's compute resources for feature engineering to speed up the process. Which of the following approaches correctly combines Snowflake's SQL capabilities with scikit-learn for feature engineering and model training, while minimizing data transfer between Snowflake and the Python environment?

- A. Use the Snowflake Python Connector to execute individual SQL queries for each feature engineering step. Load the resulting features step-by-step into a Pandas DataFrame and train the scikit-learn model.
- B. Create Snowflake User-Defined Functions (UDFs) in Python for complex feature engineering calculations. Call these UDFs within a SQL query to apply the feature engineering to the Snowflake data. Load the resulting features into a Pandas DataFrame and train the scikit-learn model.
- C. Write a complex SQL query in Snowmake to perform all feature engineering, then load the resulting features into a Pandas DataFrame and train the scikit-learn model.
- D. Use Snowflake external functions to invoke a remote service (e.g., AWS Lambda) for feature engineering. Pass data from Snowflake to the remote service, receive the engineered features back, and load them into a Pandas DataFrame for model training.
- E. Implement the feature engineering steps directly in Python using Pandas and scikit-learn, then load the raw data into a Pandas DataFrame and apply the transformations. Finally, train the scikit-learn model.

Answer: B

Explanation:

Option D is the most efficient approach. Using Snowflake UDFs in Python allows you to perform complex feature engineering directly within Snowflake's compute environment, minimizing the amount of data that needs to be transferred to the Python environment. This reduces network latency and improves performance. Option A may be workable but it would need writing complex SQL queries. Option B will involve a lot of individual interactions between Snowflake and python making this a slower and more complex process. Option C would bring the data out to python before processing it with Pandas and scikit-learn, meaning you'd lose out on the compute of Snowflake. Option E is a viable solution to offload compute to a different compute environment than the python environment and load into a Pandas DataFrame.

NEW QUESTION # 179

A team is using Snowflake to build a supervised machine learning model for image classification. The images are stored in a Snowflake table, and the labels are in a separate table. The goal is to train a model using Snowpark Python. Which of the following code snippets represents the MOST efficient way to join the image data with its corresponding labels, pre-process the images (resize and normalize), and prepare the data for model training using Snowpark DataFrame transformations? Assume `image_df` contains image data as binary, `label_df` contains the image labels, and `'resize normalize udf'` is a UDF that handles resizing and normalization.

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

Answer: C,D

Explanation:

Options C and E represent the most efficient approaches using Snowpark DataFrames. Option C performs the join, preprocesses

the images using the UDF, and selects the required columns, all within the Snowflake environment without pulling data to the client prematurely. It prepares the data for downstream tasks such as model training or saving to a new table. Option E enhances upon this by converting the Snowpark DataFrame to a Pandas DataFrame and then to NumPy arrays, which are common formats for machine learning libraries. This is an efficient way to perform complex transformations that are not readily available within the standard Snowpark API. Option A collects the entire DataFrame to the client, which is highly inefficient for large datasets. Option B uses RDDs (Resilient Distributed Datasets), which are an older Spark API and less efficient than DataFrames in Snowpark. Option D performs individual queries for each image ID, resulting in a large number of round trips to the database and is extremely inefficient. Option E also implicitly uses the power of pandas vectorized operations, leading to increased performance.

NEW QUESTION # 180

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