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

NEW QUESTION # 95
You are investigating website session durations stored in a Snowflake table named 'WEB SESSIONS. You suspect that bot traffic is artificially inflating the average session duration. You have the following session durations (in seconds) in the 'SESSION DURATION' column: [10, 12, 15, 18, 20, 22, 25, 28, 30, 1000]. Given this data and the context of bot traffic, which measure of

central tendency is MOST robust to the influence of the outlier (1000) in this dataset? Assuming you already have table and dataframe created for this analysis. (Choose ONE)

- A. Trimmed mean (e.g. 10% trimmed)
- B. Mode
- C. Median
- D. Geometric Mean
- E. Mean

Answer: C

Explanation:
The median is the most robust measure of central tendency in the presence of outliers. The mean is heavily influenced by extreme values. The mode is not guaranteed to be a stable measure. Geometric mean is also not robust. Trimmed mean can be useful, it's less robust compared to Median.

NEW QUESTION # 96
A marketing team at 'RetailSphere' wants to segment their customer base using unstructured textual data (customer reviews) stored in a Snowflake VARIANT column named 'REVIEW TEXT within the table 'CUSTOMER REVIEWS'. They aim to identify distinct customer segments based on sentiment and topics discussed in their reviews. They want to use a Supervised Learning approach for this task. Which of the following strategies best describes the appropriate approach within Snowflake, considering performance and scalability? Assume you have pre-trained sentiment and topic models deployed as Snowflake external functions.

- A. Create a Snowflake external function to call a pre-trained sentiment analysis and topic modeling model hosted on Azure ML. Apply these functions to the REVIEW_TEXT column to generate sentiment scores and topic probabilities. Subsequently, use these features as input to an unsupervised clustering algorithm (e.g., DBSCAN) within Snowflake, relying solely on data density to define segments.
- B. Extract the 'REVIEW TEXT column, apply sentiment analysis and topic modeling using Java within a Snowflake UDF, and then perform hierarchical clustering directly on the resulting features within Snowflake. Manually label the clusters after visual inspection.
- C. Create a Snowflake external function to call a pre-trained sentiment analysis and topic modeling model hosted on AWS SageMaker. Apply these functions to the ' REVIEW_TEXT column to generate sentiment scores and topic probabilities. Subsequently, use these features as input to a supervised classification model (e.g., XGBoost) also deployed as a Snowflake external function, training on a manually labeled subset of reviews.
- D. Extract the ' REVIEW_TEXT column, manually categorize a small subset of reviews into predefined segments. Train a text classification model (e.g., using scikit-learn) externally, deploy it as a Snowflake external function, and then apply this function to the entire 'REVIEW TEXT column to predict segment assignments. Manually adjust cluster centroids to represent the manually labeled dataset.
- E. Extract the column, apply sentiment analysis and topic modeling using Python within a Snowflake UDF, and then perform K-Means clustering directly on the resulting features within Snowflake. Define the labels after clustering based on the majority class of the topics and sentiments in each cluster.

Answer: C

Explanation:
Option C provides the most robust and scalable approach. Using Snowflake external functions allows leveraging pre-trained models without moving the data out of Snowflake. Applying sentiment analysis and topic modeling generates features that can be used by a supervised classification model trained on a labeled subset of reviews. This combines the power of external models with Snowflake's data processing capabilities. Using labeled data allows for better segment definition using Supervised approach.

NEW QUESTION # 97
A marketing team is using Snowflake to store customer data including demographics, purchase history, and website activity. They want to perform customer segmentation using hierarchical clustering. Considering performance and scalability with very large datasets, which of the following strategies is the MOST suitable approach?

- A. Employ BIRCH clustering with Snowflake Python UDF. Configure Snowflake resources accordingly. Optimize the clustering process. And tune parameters.
- B. Utilize a SQL-based affinity propagation method directly within Snowflake. This removes the need for feature scaling and specialized hardware.

- C. Perform mini-batch K-means clustering using Snowflake's compute resources through a Snowpark DataFrame. Take a large sample of each mini-batch and perform hierarchical clustering on each mini-batch and then create clusters of clusters.
- D. Directly apply an agglomerative hierarchical clustering algorithm with complete linkage to the entire dataset within Snowflake, using SQL. This is computationally feasible due to SQL's efficiency.
- E. Randomly sample a small subset of the customer data and perform hierarchical clustering on this subset using an external tool like R or Python with scikit-learn. Assume that results generalize well to the entire dataset. Avoid using Snowflake for this purpose.

Answer: A

Explanation:
Hierarchical clustering has a high time complexity, making it impractical for large datasets. While mini-batch K-means provides the most efficient option for large datasets. BIRCH is more suited for huge datasets and can be applied as a Snowflake Python UDF with Snowpark DataFrames to provide scalability and high performance as its better than other clustering such as affinity propagation. Options A and E are impractical due to the computational cost of hierarchical clustering in SQL or affinity propagation in SQL. Sampling (Option C) can lead to inaccurate results.

NEW QUESTION # 98
You are responsible for deploying a fraud detection model in Snowflake. The model needs to be validated rigorously before being put into production. Which of the following actions represent the MOST comprehensive approach to model validation within the Snowflake environment, focusing on both statistical performance and operational readiness, and using Snowflake features for validation?

- A. Calculating only the AUC (Area Under the Curve) metric on the entire dataset without performing any data splitting or cross-validation. Deploying the model if the AUC is above 0.7.
- B. Implementing K-fold cross-validation using Snowflake stored procedures and temporary tables to store and aggregate the results from each fold. Evaluating the model's performance across different data segments and time periods to assess its robustness. Using Snowflake streams and tasks to automate the validation process on new incoming data.
- C. Conducting a comprehensive backtesting analysis using historical data, simulating real-world scenarios, and evaluating the model's performance under different conditions. Using Snowflake's time travel feature to access historical data snapshots for accurate backtesting. Monitoring model performance using Snowflake alerts triggered by custom SQL queries against model prediction logs.
- D. Performing a single train/test split of the historical data and evaluating model performance metrics (e.g., accuracy, precision, recall) on the test set using standard Python libraries within a Snowflake Snowpark environment. Deploying the model directly if the metrics exceed a predefined threshold.
- E. Relying on a simple visual inspection of model outputs and comparing them to a small sample of known fraud cases. Skipping formal validation to accelerate the deployment process.

Answer: B,C

Explanation:
Options B and C represent the most comprehensive approaches. Option B utilizes K-fold cross-validation within Snowflake for robust performance evaluation across data segments and automates validation on new data using streams and tasks. Option C emphasizes backtesting with historical data using Snowflake's time travel feature and monitors performance with alerts, ensuring real-world relevance and timely detection of performance degradation. Option A is insufficient as it relies on a single train/test split. Option D is inadequate and risky due to lack of validation. Option E is also insufficient since calculating only AUC on the entire dataset results in overfitting.

NEW QUESTION # 99
You are developing a real-time fraud detection system using Snowflake and an external function. The system involves scoring incoming transactions against a pre-trained TensorFlow model hosted on Google Cloud A1 Platform Prediction. The transaction data resides in a Snowflake stream. The goal is to minimize latency and cost. Which of the following strategies are most effective to optimize the interaction between Snowflake and the Google Cloud A1 Platform Prediction service via an external function, considering both performance and cost?

- A. Batch multiple transactions from the Snowflake stream into a single request to the external function. The external function then sends the batched transactions to the Google Cloud A1 Platform Prediction service in a single request. This increases throughput but might introduce latency.
- B. Invoke the external function for each individual transaction in the Snowflake stream, sending the transaction data as a single

request to the Google Cloud A1 Platform Prediction service.

- C. Implement asynchronous invocation of the external function from Snowflake using Snowflake's task functionality. This allows Snowflake to continue processing transactions without waiting for the response from the Google Cloud A1 Platform Prediction service, but requires careful monitoring and handling of asynchronous results.
- D. Implement a caching mechanism within the external function (e.g., using Redis on Google Cloud) to store frequently accessed model predictions, thereby reducing the number of calls to the Google Cloud A1 Platform Prediction service. This requires managing cache invalidation.
- E. Use a Snowflake pipe to automatically ingest the data from the stream, and then trigger a scheduled task that periodically invokes a stored procedure to train the model externally.

Answer: A,C,D

Explanation:
Options B, C and E are correct. Caching (B) reduces calls to the external prediction service, minimizing both latency and cost, especially for redundant transactions. Batching (C) amortizes the overhead of invoking the external function and reduces the number of API calls to Google Cloud, improving throughput. Asynchronous invocation (E) allows Snowflake to continue processing without waiting, improving responsiveness. Option A is incorrect, as it will be a very slow and costly process. Option D mentions training the model which is unrelated to the prediction goal and would involve different steps involving the external function and model training.

NEW QUESTION # 100
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