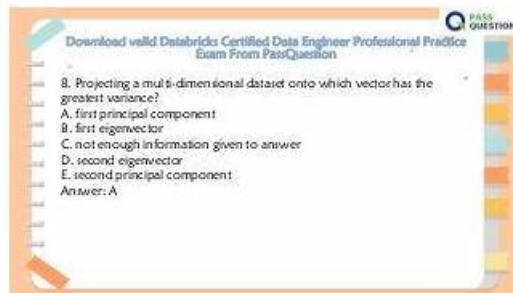


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Databricks Databricks-Machine-Learning-Professional Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"> Identify less performant data storage as a solution for other use cases Describe why complex business logic must be handled in streaming deployments

Topic 2	<ul style="list-style-type: none"> • Identify JIT feature values as a need for real-time deployment • Describe how to list all webhooks and how to delete a webhook
Topic 3	<ul style="list-style-type: none"> • Identify a use case for HTTP webhooks and where the Webhook URL needs to come • Identify advantages of using Job clusters over all-purpose clusters
Topic 4	<ul style="list-style-type: none"> • Test whether the updated model performs better on the more recent data • Identify when retraining and deploying an updated model is a probable solution to drift
Topic 5	<ul style="list-style-type: none"> • Identify the requirements for tracking nested runs • Describe an MLflow flavor and the benefits of using MLflow flavors
Topic 6	<ul style="list-style-type: none"> • Identify that data can arrive out-of-order with structured streaming • Identify how model serving uses one all-purpose cluster for a model deployment
Topic 7	<ul style="list-style-type: none"> • Describe concept drift and its impact on model efficacy • Describe summary statistic monitoring as a simple solution for numeric feature drift
Topic 8	<ul style="list-style-type: none"> • Identify live serving benefits of querying precomputed batch predictions • Describe Structured Streaming as a common processing tool for ETL pipelines
Topic 9	<ul style="list-style-type: none"> • Describe model serving deploys and endpoint for every stage • Identify scenarios in which feature drift and • or label drift are likely to occur

Databricks Certified Machine Learning Professional Sample Questions (Q151-Q156):

NEW QUESTION # 151

A Machine Learning Engineer has a real-time fraud detection model deployed that approves or blocks millions of transactions daily. They need to deploy a new version of the model with improved detection accuracy to this high-traffic, business-critical application. Because any model downtime could result in lost revenue or customer dissatisfaction, the engineer must ensure zero downtime and minimal disruption for end users. Leadership also requires that any rollback to the previous version be immediate if issues are detected with the new model in production. Which deployment strategy meets these requirements?

- A. Use a canary deployment by initially routing a small percentage of user traffic to the new model version, monitoring results, and gradually increasing exposure until all traffic uses the new version if no problems are detected.
- B. Deploy the new model in parallel with the old version, monitor both for a set period, and then notify all stakeholders to manually switch over to the new version at a coordinated time.
- C. Use a blue-green deployment for the new model, maintaining two separate production environments (one "blue," one "green") and switching user traffic to the new version only after confirming it is healthy, enabling instant rollback if needed.
- D. Replace the current production model with the new version during a scheduled maintenance window, notify affected users of potential brief disruptions, and prepare to reroute requests to a backup if failures occur after deployment.

Answer: C

Explanation:

A blue-green deployment maintains two fully operational production environments and shifts traffic between them instantly. This approach provides zero downtime during deployment and allows immediate rollback to the previous model version if issues arise, which is critical for high- traffic, business-critical real-time systems.

NEW QUESTION # 152

A data scientist is utilizing MLflow to track their machine learning experiments. After completing a series of runs for the experiment with experiment ID `exp_id`, the data scientist wants to programmatically work with the experiment run data in a Spark DataFrame. They have an active MLflow Client client and an active Spark session spark. Which of the following lines of code can be used to obtain run-level results for `exp_id` in a Spark DataFrame?

- A. `spark.read.format("delta").load(exp_id)`
- B. `spark.read.format("mlflow-experiment").load(exp_id)`
- C. `client.list_run_infos(exp_id)`
- D. There is no way to programmatically return row-level results from an MLflow Experiment.
- E. `mlflow.search_runs(exp_id)`

Answer: A

NEW QUESTION # 153

A Data Scientist is training a binary classification model using LogisticRegression in SparkML on a large dataset stored in a Delta table. After fitting the pipeline, they want to evaluate the model's performance using an appropriate metric and scalable method across the distributed test data using the SparkML API. Which model evaluation strategy will suit their needs?

- A. Use the `BinaryClassificationEvaluator` on the transformed test `DataFrame` and specify the appropriate metric.
- B. Use `BinaryClassificationEvaluator` with `rawPredictionCol` parameter, but first convert probability predictions to binary predictions using a UDF to ensure consistent evaluation across different Spark versions.
- C. Convert the `DataFrame` to `RDD` and use `MulticlassMetrics.confusionMatrix()` to calculate precision and recall manually, as this avoids the overhead of `DataFrame` operations in distributed environments.
- D. Use `MulticlassClassificationEvaluator` with `weightedPrecision` metric since it provides more comprehensive evaluation than `BinaryClassificationEvaluator` for binary problems.

Answer: A

Explanation:

`BinaryClassificationEvaluator` is the Spark ML-native, distributed evaluation API designed specifically for binary classification models. It operates directly on the transformed `DataFrame` produced by the pipeline and efficiently computes scalable metrics such as `areaUnderROC` or `areaUnderPR` without requiring data conversion or custom logic, making it the correct and efficient choice for large, distributed datasets.

NEW QUESTION # 154

A Data Scientist at an online gaming company is creating a model to predict player churn. The company currently collects terabytes of player activity logs daily, which are stored in Databricks and processed for daily reporting. The Data Scientist has completed feature engineering and the resulting data is saved as a Delta Table with a size of 500GB. They need to next build the model for the most performant and cost-effective performance for Databricks. Which approach will do this?

- A. Load the feature data as a pandas `DataFrame` and train the model using scikit-learn's `RandomForestClassifier` on a multi-node Databricks cluster.
- B. Load the feature data as a pandas `DataFrame` and train the model using scikit-learn's `RandomForestClassifier` on a single-node Databricks cluster.
- C. Load the feature data as a Spark `DataFrame` and train the model using SparkML's `RandomForestClassifier` on a multi-node Databricks cluster.
- D. Load the feature data as a Spark `DataFrame` and train the model using Spark's `DeepspeedTorchDistributor` on a multi-node Databricks cluster.

Answer: C

Explanation:

A 500GB Delta Table is far beyond what is practical to load into a single pandas `DataFrame`, and scaling pandas-based scikit-learn training across nodes is not the right fit for this workload. Using a Spark `DataFrame` with Spark ML's `RandomForestClassifier` leverages distributed data processing and distributed model training on a multi-node cluster, which is the most performant and cost-effective approach for large tabular datasets in Databricks.

NEW QUESTION # 155

A Data Scientist has been performing hyperparameter tuning using Ray Tune with grid search. After team discussions, they decide to switch to Bayesian optimization to more efficiently explore the parameter space. Their current code is:

How can they implement this change?

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

Answer: B

Explanation:

Bayesian optimization in Ray Tune requires defining a continuous or discrete search space (such as `tune.randint`) and explicitly configuring a Bayesian search algorithm. Using `tune.randint` defines a probabilistic parameter domain, and setting `search_alg` to `BayesOptSearch` enables Bayesian optimization to efficiently explore the space based on past trial results, rather than exhaustively enumerating all values as in grid search.

NEW QUESTION # 156

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