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

Topic	Details

Topic 1	<ul style="list-style-type: none"> • Identify which code block will trigger a shown webhook • Describe the basic purpose and user interactions with Model Registry
Topic 2	<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 3	<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 4	<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 5	<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 6	<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 7	<ul style="list-style-type: none"> • Describe the advantages of using the pyfunc MLflow flavor • Manually log parameters, models, and evaluation metrics using MLflow
Topic 8	<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

Databricks Certified Machine Learning Professional Sample Questions (Q50-Q55):

NEW QUESTION # 50

Which of the following is an obstacle related to streaming machine learning applications?

- A. End-to-end fault tolerance
- B. None of these
- C. All of these
- D. Out-of-order data

Answer: C

Explanation:

Streaming machine learning applications face multiple challenges, including end-to-end fault tolerance (ensuring recovery from failures without data loss) and out-of-order data (handling events that arrive late or out of sequence). Both are common obstacles in building reliable real-time ML systems.

NEW QUESTION # 51

A Machine Learning Engineer needs a continuous deployment pipeline for their models hosted on Databricks Model Serving. The deployment automation should execute after a model is trained and registered using MLflow. The goal of the automation is to deploy the latest version of the model from the MLflow Model Registry only if the model can meet the company's strict latency requirements (P95 < 300ms) while serving production traffic. How can the engineer validate that new models meet their latency requirements when served in production?

- A. Serve the latest model on Databricks Model Serving and use a load testing client to generate requests at the production request rate. Use the load testing client to calculate P95 latency and verify it is less than 300ms.
- B. A/B test the latest model with Databricks Model Serving so that the latest model receives 5% of production traffic and the current model receives the rest. Use inference tables to calculate P95 latency and verify it is less than 300ms.
- C. Use the MLflow Get Run API to retrieve the model metrics from MLflow Tracking and verify that the model_latency metric is less than 300ms.
- D. Use the MLflow Get Run API to retrieve the model metrics from MLflow Tracking and verify that the inference_latency metric is less than 300ms.

Answer: B

Explanation:

Validating latency requirements must be done under real production serving conditions. Routing a small percentage of live production traffic to the new model using Databricks Model Serving allows accurate measurement of end-to-end serving latency. Inference tables capture request latency metrics, enabling calculation of the P95 latency and ensuring it meets the strict production threshold before full rollout.

NEW QUESTION # 52

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: D

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 # 53

A Data Scientist is training a complex gradient-boosted model for fraud detection. The model uses dynamic threshold tuning during training and generates custom visualizations of feature drift. To ensure reproducibility and collaboration, they need to programmatically track:

- Custom metrics (e.g., `adjusted_f1` for threshold variations)
- Hyperparameters from nested configuration files
- Drift visualization plots as PDFs

Which approach implements this tracking in MLflow?

- A. Enable `mlflow.autolog()` at the beginning of the code and rely on it to automatically detect and log custom metrics, parameters, and visualization files.
- B. Write all custom metrics and parameters to stdout during training and configure MLflow's tracking server to scrape these outputs.
- C. Store hyperparameters in a YAML file, save metrics to a CSV, and use `mlflow.log_artifact()` to upload both to the tracking server as artifacts.
- D. Use `mlflow.log_metric("adjusted_f1", value)`, `mlflow.log_params(nested_config)`, and `mlflow.log_artifact("drift_plot.pdf")` within an active MLflow run context, while enabling `mlflow.autolog()` to capture model-specific metadata automatically.

Answer: D

Explanation:

Explicitly using `mlflow.log_metric`, `mlflow.log_params`, and `mlflow.log_artifact` within an active MLflow run provides precise, programmatic control over tracking custom metrics, complex hyperparameter configurations, and generated artifacts such as PDF visualizations. Enabling `mlflow.autolog` alongside this captures standard model metadata automatically while still allowing full flexibility for advanced, custom tracking needs.

NEW QUESTION # 54

Which of the following Databricks-managed MLflow capabilities is a centralized model store?

- A. Experiments

- B. Model Serving
- C. Models
- D. Feature Store
- E. Model Registry

Answer: E

NEW QUESTION # 55

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