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

Topic	Details
Topic 1	• Identify the requirements for tracking nested runs • Describe an MLflow flavor and the benefits of using MLflow flavors
Topic 2	• Identify which code block will trigger a shown webhook • Describe the basic purpose and user interactions with Model Registry
Topic 3	• Identify live serving benefits of querying precomputed batch predictions • Describe Structured Streaming as a common processing tool for ETL pipelines
Topic 4	• 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	• 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	• Create, overwrite, merge, and read Feature Store tables in machine learning workflows • View Delta table history and load a previous version of a Delta table
Topic 7	• Describe the advantages of using the pyfunc MLflow flavor • Manually log parameters, models, and evaluation metrics using MLflow

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Databricks Certified Machine Learning Professional Sample Questions (Q20-Q25):

NEW QUESTION # 20
Which tool can assist in real-time deployments by packaging software with its own application, tools, and libraries?

- A. Click
- B. Docker
- C. Structured Streaming
- D. Flask

Answer: B

Explanation:
Docker is a containerization tool that packages software along with its dependencies, tools, and libraries into a single container. This ensures consistency across environments and is highly useful for real-time deployments, enabling scalable and portable model serving.

NEW QUESTION # 21
A machine learning engineer is in the process of implementing a feature drift monitoring solution.
They are planning to use the following steps:
1. Measure the distributions of each feature variable in the training
set
2. Deploy a model to production
3. Measure the distributions of each feature variable in inference
4. _____
Which action should be completed as Step #4?

- A. Retrain the model based on any new feature variables that have been added to the feature set
- B. Obtain the observed values (actual) feature values and compare to the predicted values
- C. Measure the latency of the model's prediction time
- D. Run a statistical test to determine if there are changes in the feature variable distribution over time

Answer: D

Explanation:
The final step in a feature drift monitoring solution is to run a statistical test (e.g., Kolmogorov- Smirnov test) to determine whether the feature distributions in production have significantly diverged from those in the training set. This helps detect drift and maintain model reliability.

NEW QUESTION # 22
A Machine Learning Engineer has a production AI model that predicts fraudulent transactions in real time. This model is integrated into critical business workflows and any downtime could result in significant financial loss and regulatory penalties. The engineer needs to deploy a new, improved version of the model to production to replace the existing model. The bank's fairness policy

requires that all transactions be exposed to the same model at any given time. Additionally, the deployment must meet the following requirements:
- Zero downtime: The fraud detection service must remain continuously available to users and downstream systems.
- Immediate rollback: If the new model causes issues, you must be able to revert to the previous version instantly.
Which deployment strategy meets these requirements?

- A. Blue-Green
- B. Rolling
- C. Canary
- D. Shadow

Answer: A

Explanation:
Blue-green deployment maintains two fully operational production environments and switches all traffic from the old model to the new model at once. This guarantees zero downtime and ensures that all transactions are handled by the same model version at any given time. If issues arise, traffic can be immediately switched back to the previous environment, enabling instant rollback while meeting strict fairness and availability requirements.

NEW QUESTION # 23
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. 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.
- B. 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.
- 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. 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.

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 # 24
A machine learning engineer has developed a machine learning pipeline that produces a scikit- learn model model and computes the RMSE rmse. MAE mae, and R-squared r2 values for the test set. They now want to log these values with the MLflow run. These values are stored in the dictionary metrics.
They run the following code block:
The code block produces an error.
Which changes to the code block will successfully complete the task?

- A. Replace metrics with model
- B. Replace metrics with rmse, mae, r2
- C. Replace mlflow.log_metric with mlflow.sklearn.log_metric
- D. Replace log_metric with log_metrics

Answer: D

Explanation:
The method mlflow.log_metric() logs a single metric, while mlflow.log_metrics() is used to log multiple metrics at once from a dictionary. Since metrics is a dictionary containing rmse, mae, and r2, the correct function is mlflow.log_metrics(metrics).

NEW QUESTION # 25
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