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# Databricks Databricks-Machine-Learning-Professional Exam Syllabus

## Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>• Describe model serving deploys and endpoint for every stage</li><li>• Identify scenarios in which feature drift and</li><li>• or label drift are likely to occur</li></ul>
Topic 2	<ul style="list-style-type: none"><li>• Create, overwrite, merge, and read Feature Store tables in machine learning workflows</li><li>• View Delta table history and load a previous version of a Delta table</li></ul>
Topic 3	<ul style="list-style-type: none"><li>• Identify less performant data storage as a solution for other use cases</li><li>• Describe why complex business logic must be handled in streaming deployments</li></ul>
Topic 4	<ul style="list-style-type: none"><li>• Identify JIT feature values as a need for real-time deployment</li><li>• Describe how to list all webhooks and how to delete a webhook</li></ul>
Topic 5	<ul style="list-style-type: none"><li>• Describe concept drift and its impact on model efficacy</li><li>• Describe summary statistic monitoring as a simple solution for numeric feature drift</li></ul>
Topic 6	<ul style="list-style-type: none"><li>• Identify a use case for HTTP webhooks and where the Webhook URL needs to come</li><li>• Identify advantages of using Job clusters over all-purpose clusters</li></ul>

## Databricks Certified Machine Learning Professional Sample Questions (Q89-Q94):

### NEW QUESTION # 89

A Machine Learning Engineer is conducting hyperparameter tuning for multiple XGBoost models using Ray Tune on Databricks. They want to integrate MLflow tracking to monitor their experiments and need to ensure proper authentication. The engineer has Ray 2.41 installed and wants to use both Ray Tune and MLflow together in their distributed tuning workflow. They have to configure Databricks to run the hyperparameter optimization with MLflow integration. Which set of configuration steps will do this?

- A. Install the MLflow Ray plugin using `!pip install mlflow-ray` and configure the workspace connection.
- B. Configure `DATABRICKS_HOST` and `DATABRICKS_TOKEN` environment variables before calling `setup_ray_cluster()`.
- C. Enable MLflow autologging with `mlflow.ray.autolog()` and set the tracking server URI.
- D. Set `MLFLOW_TRACKING_URI` and `MLFLOW_EXPERIMENT_TD` environment variables before initializing Ray.

**Answer: B**

Explanation:

When using Ray Tune with MLflow on Databricks, Ray workers must be able to authenticate back to the Databricks workspace to log runs to MLflow Tracking. Setting the `DATABRICKS_HOST` and `DATABRICKS_TOKEN` environment variables before initializing the Ray cluster ensures all Ray processes can securely communicate with Databricks and correctly log MLflow experiments during distributed hyperparameter tuning.

### NEW QUESTION # 90

A machine learning engineer wants to move their model version `model_version` for the MLflow Model Registry model `model` from the Staging stage to the Production stage using MLflow Client client. Which of the following code blocks can they use to accomplish the task?

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

**Answer: A**

**NEW QUESTION # 91**

A Data Scientist has created a sales forecasting model, named sales-forecasting. The model is deployed to a model serving endpoint with a schema. They need to invoke this model using Python and would prefer to use a SDK function to make the request. Which method suits these requirements?

- **A. Import the MLflow Deployments class and use the predict method and provide the endpoint and input parameters.**
- B. Use the built in ai\_query function and provide the endpoints and request parameters.
- C. Import the MLflow Deployments class and use the ai\_query method and provide the endpoints and request parameters.
- D. Make an API request to the MODEL\_VERSION\_URI and provide the dataframe\_split as the request parameter.

**Answer: A**

Explanation:

The MLflow Deployments SDK provides a predict method specifically designed to invoke Databricks model serving endpoints from Python. This method abstracts the HTTP request details, allows specifying the endpoint name directly, and cleanly passes input parameters that conform to the model's serving schema, making it the preferred SDK-based approach.

**NEW QUESTION # 92**

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

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

**Answer: C**

**NEW QUESTION # 93**

Why is Apache Spark useful for machine learning training?

- A. Data visualization
- B. GPU rendering
- C. Web serving
- **D. Distributed data processing**

**Answer: D**

Explanation:

Spark processes large distributed datasets efficiently.

**NEW QUESTION # 94**

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