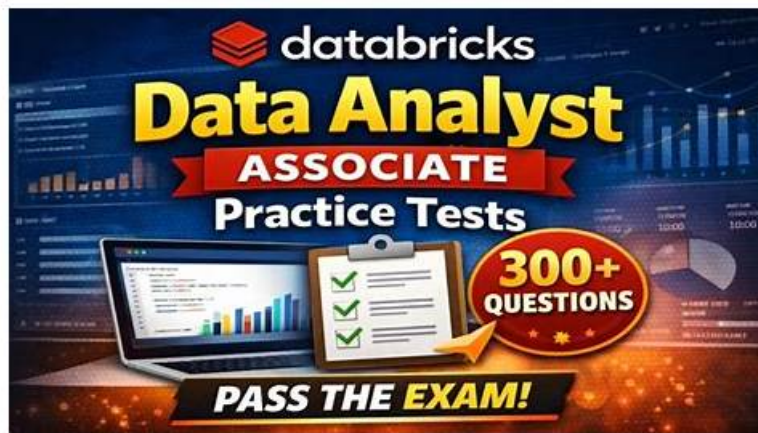


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## Databricks Databricks-Machine-Learning-Professional Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<ul style="list-style-type: none"> <li>Describe the advantages of using the pyfunc MLflow flavor</li> <li>Manually log parameters, models, and evaluation metrics using MLflow</li> </ul>

Topic 3	<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 or label drift are likely to occur</li> </ul>
Topic 4	<ul style="list-style-type: none"> <li>• Identify live serving benefits of querying precomputed batch predictions</li> <li>• Describe Structured Streaming as a common processing tool for ETL pipelines</li> </ul>
Topic 5	<ul style="list-style-type: none"> <li>• Identify which code block will trigger a shown webhook</li> <li>• Describe the basic purpose and user interactions with Model Registry</li> </ul>
Topic 6	<ul style="list-style-type: none"> <li>• Identify the requirements for tracking nested runs</li> <li>• Describe an MLflow flavor and the benefits of using MLflow flavors</li> </ul>
Topic 7	<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 8	<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 9	<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>
Topic 10	<ul style="list-style-type: none"> <li>• Identify that data can arrive out-of-order with structured streaming</li> <li>• Identify how model serving uses one all-purpose cluster for a model deployment</li> </ul>

## Databricks Certified Machine Learning Professional Sample Questions (Q134-Q139):

### NEW QUESTION # 134

What is the purpose of ParamGridBuilder?

- A. Model deployment
- B. Tracking metrics
- C. Feature storage
- **D. Creating hyperparameter combinations**

**Answer: D**

Explanation:

ParamGridBuilder creates parameter search grids for tuning.

### NEW QUESTION # 135

Which tool can be used to automatically start a testing Job when a new version of an MLflow Model Registry model is registered?

- A. MLflow Model Registry UI
- **B. MLflow Model Registry Webhooks**
- C. MLflow Client API
- D. MLflow REST API

**Answer: B**

Explanation:

MLflow Model Registry Webhooks can be configured to automatically trigger actions - such as running a testing job - when events occur, like registering a new model version. This enables automation in CI/CD workflows for machine learning models.

### NEW QUESTION # 136

A data scientist would like to enable MLflow Autologging for all machine learning libraries used in a notebook. They want to ensure that MLflow Autologging is used no matter what version of the Databricks Runtime for Machine Learning is used to run the notebook and no matter what workspace-wide configurations are selected in the Admin Console. Which of the following lines of code can they use to accomplish this task?

- A. It is not possible to automatically log MLflow runs.
- B. `mlflow.autolog()`
- C. `mlflow.sklearn.autolog()`
- D. `mlflow.spark.autolog()`
- E. `spark.conf.set("autologging", True)`

**Answer: E**

#### NEW QUESTION # 137

A Data Scientist at a company with rapidly increasing sales has deployed a scikit-learn model in production, which is retrained weekly on a single-node cluster. During the most recent retraining, the job failed due to an out-of-memory error. Upon investigation, the Data Scientist discovered that the training data had increased to 700GB as a result of the company's expanding customer base. Which approach will reliably resolve this issue in the long term?

- A. Refactor the code to use the DeepSpeed library to shard the scikit-learn model across multiple nodes, enabling distributed model training on large volumes of data
- B. Increase the size of the current single-node cluster to handle the increase of data while minimizing the need for code refactoring
- C. Wrap the current model training code as a Spark UDF and apply it to the Spark DataFrame to distribute model training across multiple nodes.
- D. Refactor the code to use MLlib across multiple nodes, enabling distributed model training on large volumes of data

**Answer: D**

Explanation:

Spark MLlib is designed for distributed model training on large-scale datasets and can natively handle hundreds of gigabytes of data across multiple nodes. Refactoring to MLlib enables the training workload to scale with data growth, avoids single-node memory limitations, and provides a reliable long-term solution as the company's data continues to expand.

#### NEW QUESTION # 138

A data scientist has computed updated feature values for all primary key values stored in the Feature Store table features. In addition, feature values for some new primary key values have also been computed. The updated feature values are stored in the DataFrame features\_df. They want to replace all data in features with the newly computed data.

Which of the following code blocks can they use to perform this task using the Feature Store Client fs?

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

**Answer: E**

#### NEW QUESTION # 139

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