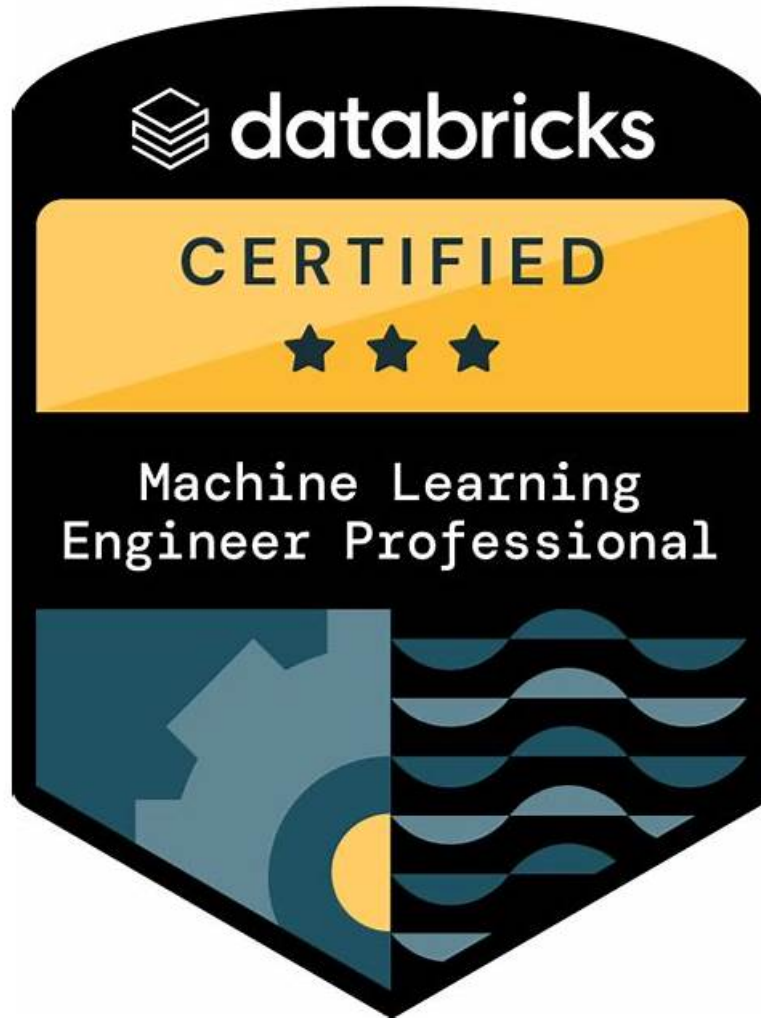


Databricks-Machine-Learning-Professional日本語版サンプル、Databricks-Machine-Learning-Professional模試エンジン



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Databricks Databricks-Machine-Learning-Professional 認定試験の出題範囲：

トピック	出題範囲
トピック 1	<ul style="list-style-type: none">• Identify the requirements for tracking nested runs• Describe an MLflow flavor and the benefits of using MLflow flavors
トピック 2	<ul style="list-style-type: none">• Describe the advantages of using the pyfunc MLflow flavor• Manually log parameters, models, and evaluation metrics using MLflow

トピック 3	<ul style="list-style-type: none"> • 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
トピック 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
トピック 5	<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
トピック 6	<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
トピック 7	<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
トピック 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
トピック 9	<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
トピック 10	<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
トピック 11	<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

>> Databricks-Machine-Learning-Professional日本語版サンプル <<

Databricks Databricks-Machine-Learning-Professional日本語版サンプル: Databricks Certified Machine Learning Professional - Tech4Exam 最新の更新

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Databricks Certified Machine Learning Professional 認定 Databricks-Machine-Learning-Professional 試験問題 (Q158-Q163):

質問 # 158

A Machine Learning Engineer is setting up a cluster for a deep learning training run, but has a number of settings options to choose from. Their cluster will be reused by other engineers on their team and their datasets vary in size from hundreds of MBs to hundreds of GBs. They need to choose a configuration that allows for performant, stable deep learning training without excessive costs. Which configuration will do this?

- A. Using ML Runtime, use a moderately sized CPU VM for the driver and a variable number of GPU enabled VMs for the workers with autoscale enabled
- B. Using ML Runtime, use a large single node, GPU-enabled VM with auto termination set to 20 minutes to reduce costs
- C. Using ML Runtime, use a moderate sized GPU VM for the driver and a variable number of memory optimized CPU VMs for the workers with autoscale enabled
- D. Using Databricks Runtime, use a moderately sized CPU VM for the driver and a variable number of GPU enabled VMs for the workers with autoscale enabled

正解: A

解説:

Using the ML Runtime ensures deep learning frameworks and GPU drivers are preconfigured and optimized. A moderately sized CPU driver is sufficient for coordination, while GPU-enabled worker nodes handle the computationally intensive training workload. Enabling autoscaling allows the cluster to efficiently adapt to datasets ranging from hundreds of megabytes to hundreds of gigabytes, providing strong performance without overprovisioning and controlling costs in a shared team environment.

質問 # 159

A Data Scientist needs to analyze drift detection results from Databricks Lakehouse Monitoring.

The system has generated both profile metrics and drift metrics tables. The scientist needs to identify baseline drift in numerical features by comparing current data against a baseline from 6 months ago. Which combination of table columns and values indicates baseline drift in a numerical feature?

- A. `drift_type = "BASELINE"`, `chi_squared_test.p_value < 0.05`, and `js_distance > 0.2`.
- B. `window_cmp` pointing to baseline time window and `tv_distance > 0.5` with any `drift_type` value.
- C. `drift_type = "BASELINE"`, `ks_test.p_value < 0.05`, and `wasserstein_distance > 0.1`.
- D. `log_type = "BASELINE"` in profile metrics table with `population_stability_index > 0.2` in drift metrics table.

正解: C

解説:

Baseline drift is identified in the drift metrics table by setting `drift_type` to `BASELINE`, and for numerical features the drift statistics are the KS test (`ks_test` with a p-value indicating a statistically significant distribution change) and a numeric distance metric such as `wasserstein_distance`.

質問 # 160

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. Obtain the observed values (actual) feature values and compare to the predicted values
- B. Retrain the model based on any new feature variables that have been added to the feature set
- 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

正解: D

解説:

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.

質問 # 161

Which of the following is a reason for using Jensen-Shannon (JS) distance over a Kolmogorov-Smirnov (KS) test for numeric feature drift detection?

- A. JS does not require any manual threshold or cutoff determinations
- B. JS is more robust when working with large datasets
- C. None of these reasons
- D. All of these reasons
- E. JS is not normalized or smoothed

正解: B

質問 # 162

A machine learning engineer is converting a Hyperopt-based hyperparameter tuning process from manual MLflow logging to MLflow Autologging. They are trying to determine how to manage nested Hyperopt runs with MLflow Autologging. Which of the following approaches will create a single parent run for the process and a child run for each unique combination of hyperparameter values when using Hyperopt and MLflow Autologging?

- A. Starting a manual parent run before calling `fit`
- B. MLflow Autologging will automatically accomplish this task with Hyperopt
- C. Ensuring that a built-in model flavor is used for the model logging
- D. Starting a manual child run within the objective function
- E. There is no way to accomplish nested runs with MLflow Autologging and Hyperopt

正解: A

質問 # 163

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