Vendor: Databricks

Exam Code: Certified-Machine-Learning-Professional

Exam Name: Databricks Certified Machine Learning Professional

Version: DEMO

QUESTION 1
A data scientist has developed a model model and computed the RMSE of the model on the test set. They have assigned this value to the variable rmse. They now want to manually store the RMSE value with the MLflow run.

They write the following incomplete code block:

```
with mlflow.start_run(experiment_id=exp_id, run_name=run_name) as run:
    # Log rmse
    mlflow._____("rmse", rmse)
```

Which of the following lines of code can be used to fill in the blank so the code block can successfully complete the task?

A. log_artifact
B. log_model
C. log_metric
D. log_param
E. There is no way to store values like this.

Answer: A

QUESTION 2
Which of the following MLflow operations can be used to automatically calculate and log a Shapley feature importance plot?

A. mlflow.shap.log_explanation
B. None of these operations can accomplish the task.
C. mlflow.shap
D. mlflow.log_figure
E. client.log_artifact

Answer: C

QUESTION 3
A data scientist has developed a scikit-learn random forest model model, but they have not yet logged model with MLflow. They want to obtain the input schema and the output schema of the model so they can document what type of data is expected as input. Which of the following MLflow operations can be used to perform this task?

A. mlflow.models.schema.infer_schema
B. mlflow.models.signature.infer_signature
C. mlflow.models.Model.get_input_schema
D. mlflow.models.Model.signature
E. There is no way to obtain the input schema and the output schema of an unlogged model.

Answer: A

QUESTION 4
A machine learning engineer and data scientist are working together to convert a batch deployment to an always-on streaming deployment. The machine learning engineer has expressed that rigorous data tests must be put in place as a part of their conversion to account for potential changes in data formats.
Which of the following describes why these types of data type tests and checks are particularly important for streaming deployments?

A. Because the streaming deployment is always on, all types of data must be handled without producing an error
B. All of these statements
C. Because the streaming deployment is always on, there is no practitioner to debug poor model performance
D. Because the streaming deployment is always on, there is a need to confirm that the deployment can autoscale
E. None of these statements

Answer: D

QUESTION 5
Which of the following deployment paradigms can centrally compute predictions for a single record with exceedingly fast results?

A. Streaming
B. Batch
C. Edge/on-device
D. None of these strategies will accomplish the task.
E. Real-time

Answer: A

QUESTION 6
A machine learning engineering team wants to build a continuous pipeline for data preparation of a machine learning application. The team would like the data to be fully processed and made ready for inference in a series of equal-sized batches.
Which of the following tools can be used to provide this type of continuous processing?

A. Spark UDFs
B. [Structured Streaming
C. MLflow
D Delta Lake
D. AutoML

Answer: A

QUESTION 7
A machine learning engineer wants to deploy a model for real-time serving using MLflow Model Serving. For the model, the machine learning engineer currently has one model version in each of the stages in the MLflow Model Registry. The engineer wants to know which model versions can be queried once Model Serving is enabled for the model. Which of the following lists all of the

MLflow Model Registry stages whose model versions are automatically deployed with Model Serving?

A. Staging. Production. Archived
B. Production
C. None. Staging. Production. Archived
D. Staging. Production
E. [None. Staging. Production

Answer: D

QUESTION 8
A data scientist has written a function to track the runs of their random forest model. The data scientist is changing the number of trees in the forest across each run. Which of the following MLflow operations is designed to log single values like the number of trees in a random forest?

A. mlflow.log_artifact
B. mlflow.log_model
C. mlflow.log_metric
D. mlflow.log_param
E. There is no way to store values like this.

Answer: C

QUESTION 9
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. Startinq a manual parent run before calling fmin
B. Ensuring that a built-in model flavor is used for the model logging
C. Starting a manual child run within the objective function
D. There is no way to accomplish nested runs with MLflow Autoloqqinq and Hyperopt
E. MLflow Autoloqqinq will automatically accomplish this task with Hyperopt

Answer: A

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