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QUESTION 1

A machine learning engineer has deployed a model recommender using MLflow Model Serving. They now want to query the version of that model that is in the Production stage of the MLflow Model Registry. Which of the following model URIs can be used to query the described model version?

A. https:///model-serving/recommender/Production/invocations

B. The version number of the model version in Production is necessary to complete this task.

C. https:///model/recommender/stage-production/invocations

D. https:///model-serving/recommender/stage-production/invocations

E. https:///model/recommender/Production/invocations

Correct Answer: E

QUESTION 2

A data scientist has developed and logged a scikit-learn random forest model model, and then they ended their Spark session and terminated their cluster. After starting a new cluster, they want to review the feature_importances_ of the

original model object.

Which of the following lines of code can be used to restore the model object so that feature_importances_ is available?

A. mlflow.load_model(model_uri)

B. client.list_artifacts(run_id)["feature-importances.csv"]

C. mlflow.sklearn.load_model(model_uri)

D. This can only be viewed in the MLflow Experiments UI

E. client.pyfunc.load_model(model_uri)

Correct Answer: C

QUESTION 3

Which of the following is a simple statistic to monitor for categorical feature drift?

A. Mode

B. None of these

C. Mode, number of unique values, and percentage of missing values

D. Percentage of missing values

E. Number of unique values

Correct Answer: C

QUESTION 4

A data scientist is using MLflow to track their machine learning experiment. As a part of each MLflow run, they are performing hyperparameter tuning. The data scientist would like to have one parent run for the tuning process with a child run for each unique combination of hyperparameter values.

They are using the following code block:

```
with mlflow.start_run(run_name="Parent run") as run:
    print("Start parent run")
with mlflow.start_run(run_name="Child 1", nested=True):
    mlflow.log_param("run_name", "child_1")
with mlflow.start_run(run_name="Child 2", nested=True):
    mlflow.log_param("run_name", "child_2")
```

The code block is not nesting the runs in MLflow as they expected.

Which of the following changes does the data scientist need to make to the above code block so that it successfully nests the child runs under the parent run in MLflow?

A. Indent the child run blocks within the parent run block

B. Add the nested=True argument to the parent run

C. Remove the nested=True argument from the child runs

D. Provide the same name to the run_name parameter for all three run blocks

E. Add the nested=True argument to the parent run and remove the nested=True arguments from the child runs

Correct Answer: A

QUESTION 5

Which of the following is a probable response to identifying drift in a machine learning application?

A. None of these responses

B. Retraining and deploying a model on more recent data

C. All of these responses

D. Rebuilding the machine learning application with a new label variable

E. Sunsetting the machine learning application

Correct Answer: B