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QUESTION 1

A machine learning engineer has developed a random forest model using scikit-learn, logged the model using MLflow as `random_forest_model`, and stored its run ID in the `run_id` Python variable. They now want to deploy that model by performing batch inference on a Spark DataFrame `spark_df`.

Which of the following code blocks can they use to create a function called `predict` that they can use to complete the task?

- ```
predict = mlflow.pyfunc.spark_udf(
 spark_df,
 f"runs:{run_id}/random_forest_model"
)
```
- A.
- B. It is not possible to deploy a scikit-learn model on a Spark DataFrame.
- ```
predict = sklearn.spark_udf(  
    spark_df,  
    f"runs:{run_id}/random_forest_model"  
)
```
- C.
- ```
predict = spark.spark_udf(
 f"runs:{run_id}/random_forest_model"
)
```
- D.
- ```
predict = mlflow.pyfunc.spark_udf(  
    spark,  
    f"runs:{run_id}/random_forest_model"  
)
```
- E.

A. Option A

B. Option B

C. Option C

D. Option D

E. Option E

Correct Answer: E



QUESTION 2

Which of the following is a simple, low-cost method of monitoring numeric feature drift?

- A. Jensen-Shannon test
- B. Summary statistics trends
- C. Chi-squared test
- D. None of these can be used to monitor feature drift
- E. Kolmogorov-Smirnov (KS) test

Correct Answer: E

QUESTION 3

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

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

Correct Answer: B

QUESTION 4

A machine learning engineer is migrating a machine learning pipeline to use Databricks Machine Learning. They have programmatically identified the best run from an MLflow Experiment and stored its URI in the `model_uri` variable and its Run ID in the `run_id` variable. They have also determined that the model was logged with the name "model". Now, the machine learning engineer wants to register that model in the MLflow Model Registry with the name "best_model". Which of the following lines of code can they use to register the model to the MLflow Model Registry?

- A. `mlflow.register_model(model_uri, "best_model")`
- B. `mlflow.register_model(run_id, "best_model")`
- C. `mlflow.register_model(f"runs:{run_id}/best_model", "model")`
- D. `mlflow.register_model(model_uri, "model")`
- E. `mlflow.register_model(f"runs:{run_id}/model")`

Correct Answer: A



QUESTION 5

A data scientist has created a Python function `compute_features` that returns a Spark DataFrame with the following schema

```
customer_id STRING,  
spend DOUBLE,  
units INT,  
loyal INT,  
region STRING
```

The resulting DataFrame is assigned to the `features_df` variable. The data scientist wants to create a Feature Store table using `features_df`. Which of the following code blocks can they use to create and populate the Feature Store table using the Feature Store Client `fs`?



- A. `fs.create_table(
 name="new_table",
 primary_keys="customer_id",
 df=features_df,
 description="Customer features"
)`
- B. `fs.create_table(
 name="new_table",
 primary_keys="customer_id",
 description="Customer features"
)`
- C. `features_df.write.mode("fs").path("new_table")`
- D. `fs.create_table(
 name="new_table",
 primary_keys="customer_id",
 function=compute_features,
 description="Customer features"
)`
- E. `features_df.write.mode("feature").path("new_table")`

A. Option A

B. Option B

C. Option C

D. Option D

E. Option E

Correct Answer: A

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