

Databricks.Databricks-Machine-Learning-Professional.v2024-03-14.q21

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NEW QUESTION: 1

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

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 2

A machine learning engineer needs to deliver predictions of a machine learning model in real-time. However, the feature values needed for computing the predictions are available one week before the query time.

Which of the following is a benefit of using a batch serving deployment in this scenario rather than a real-time serving deployment where predictions are computed at query time?

- A. Batch serving has built-in capabilities in Databricks Machine Learning
- B. Computing predictions in real-time provides more up-to-date results
- C. Querying stored predictions can be faster than computing predictions in real-time
- D. Testing is not possible in real-time serving deployments
- E. There is no advantage to using batch serving deployments over real-time serving deployments

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 3

A machine learning engineering manager has asked all of the engineers on their team to add text descriptions to each of the model projects in the MLflow Model Registry. They are starting with the model project "model" and they'd like to add the text in the model_description variable.

The team is using the following line of code:

```
client = MlflowClient()
client.update_registered_model(
    name="model",
    description=model_description
)
```



Which of the following changes does the team need to make to the above code block to accomplish the task?

- A. Replace client.update_registered_model with mlflow
- B. Replace description with artifact
- C. Replace update_registered_model with update_model_version
- D. Add a Python model as an argument to update_registered_model
- E. There no changes necessary

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 4

A machine learning engineer wants to log feature importance data from a CSV file at path importance_path with an MLflow run for model model.

Which of the following code blocks will accomplish this task inside of an existing MLflow run block?

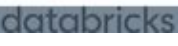
A)

```
mlflow.log_model_and_data(
    model,
    importance_path,
    "feature-importance.csv"
)
```



B)

```
mlflow.log_model(
    model,
    importance_path,
    "feature-importance.csv"
)
```



C) mlflow.log_data(importance_path, "feature-importance.csv")

D) `mlflow.log_artifact(importance_path, "feature-importance.csv")`

E) None of these code blocks can accomplish the task.

A. Option E

B. Option D

C. Option B

D. Option A

E. Option C

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 5

A data scientist has developed a 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_param`

D. There is no way to store values like this.

E. `log_metric`

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 6

Which of the following describes concept drift?

A. Concept drift is when there is a change in the distribution of an input variable

B. Concept drift is when there is a change in the relationship between input variables and target variables

C. Concept drift is when there is a change in the distribution of a target variable

D. None of these describe Concept drift

E. Concept drift is when there is a change in the distribution of the predicted target given by the model

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 7

Which of the following lists all of the model stages available in the MLflow Model Registry?

A. None. Staging. Production

- B. Staging. Production. Archived
- C. None. Staging. Production. Archived
- D. Development. Staging. Production. Archived
- E. Development. Staging. Production

Answer: E ([LEAVE A REPLY](#))

NEW QUESTION: 8

A machine learning engineer is attempting to create a webhook that will trigger a Databricks Job `job_id` when a model version for model `model` transitions into any MLflow Model Registry stage. They have the following incomplete code block:

```
job_json = {  
    "model_name": model,  
    "events": [____],  
    "description": "Job webhook trigger",  
    "status": "Active",  
    "job_spec": {  
        "job_id": job_id,  
        "workspace_url": url,  
        "access_token": token  
    }  
}
```

```
response = http_request(  
    host_creds=host_creds,  
    endpoint=endpoint,  
    method="POST",  
    json=job_json  
)
```

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

- A. "MODEL_VERSION_TRANSITIONED_TO_STAGING"
- B. "MODEL_VERSION_CREATED"
- C. "MODEL_VERSION_TRANSITIONED_STAGE"
- D. "MODEL_VERSION_TRANSITIONED_TO_PRODUCTION"
- E. "MODEL_VERSION_TRANSITIONED_TO_STAGING",
"MODEL_VERSION_TRANSITIONED_TO_PRODUCTION"

Answer: ([SHOW ANSWER](#)**)**



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NEW QUESTION: 9

A data scientist is utilizing MLflow to track their machine learning experiments. After completing a series of runs for the experiment with experiment ID `exp_id`, the data scientist wants to programmatically work with the experiment run data in a Spark DataFrame. They have an active MLflow Client `client` and an active Spark session `spark`.

Which of the following lines of code can be used to obtain run-level results for `exp_id` in a Spark DataFrame?

- A. `spark.read.format("mlflow-experiment").load(exp_id)`
- B. `client.list_run_infos(exp_id)`
- C. There is no way to programmatically return row-level results from an MLflow Experiment.
- D. `spark.read.format("delta").load(exp_id)`
- E. `mlflow.search_runs(exp_id)`

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 10

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

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

Answer: E ([LEAVE A REPLY](#))

NEW QUESTION: 11

A machine learning engineer wants to view all of the active MLflow Model Registry Webhooks for a specific model.

They are using the following code block:

```
from mlflow.utils.rest_utils import http_request
endpoint = "/api/2.0/mlflow/registry-webhooks/list/?model_name=model"
response = http_request(
    host_creds=host_creds,
    endpoint=endpoint,
    method="POST"
)
```

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Which of the following changes does the machine learning engineer need to make to this code block so it will successfully accomplish the task?

- A. Replace POST with PUT in the call to `http request`
- B. Replace POST with GET in the call to `http request`
- C. Replace `list` with `webhooks` in the endpoint URL
- D. There are no necessary changes
- E. Replace `list` with `view` in the endpoint URL

Answer: C ([LEAVE A REPLY](#))

NEW QUESTION: 12

A machine learning engineer is monitoring categorical input variables for a production machine learning application. The engineer believes that missing values are becoming more prevalent in more recent data for a particular value in one of the categorical input variables.

Which of the following tools can the machine learning engineer use to assess their theory?

- A. Kolmogorov-Smirnov (KS) test
- B. None of these
- C. Jenson-Shannon distance
- D. Two-way Chi-squared Test
- E. One-way Chi-squared Test

Answer: E ([LEAVE A REPLY](#))

NEW QUESTION: 13

Which of the following is an advantage of using the `python_function(pyfunc)` model flavor over the built-in library-specific model flavors?

- A. `python_function` can be used to deploy models without worrying about which library was used to create the model
- B. `python_function` provides no benefits over the built-in library-specific model flavors
- C. `python_function` can be used to deploy models without worrying about whether they are deployed in batch, streaming, or real-time environments
- D. `python_function` can be used to store models in an MLmodel file
- E. `python_function` can be used to deploy models in a parallelizable fashion

Answer: E ([LEAVE A REPLY](#))

NEW QUESTION: 14

Which of the following describes label drift?

- A. Label drift is when there is a change in the relationship between input variables and target variables
- B. Label drift is when there is a change in the distribution of a target variable
- C. Label drift is when there is a change in the distribution of the predicted target given by the model
- D. None of these describe label drift
- E. Label drift is when there is a change in the distribution of an input variable

Answer: ([SHOW ANSWER](#)**)**

NEW QUESTION: 15

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

Answer: (SHOW ANSWER)

NEW QUESTION: 16

Which of the following MLflow Model Registry use cases requires the use of an HTTP Webhook?

- A. Sending an email alert when an automated testing Job fails
- B. Starting a testing job when a new model is registered
- C. Updating data in a source table for a Databricks SQL dashboard when a model version transitions to the Production stage
- D. None of these use cases require the use of an HTTP Webhook
- E. Sending a message to a Slack channel when a model version transitions stages

Answer: C (LEAVE A REPLY)

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NEW QUESTION: 17

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

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

Answer: E (LEAVE A REPLY)

NEW QUESTION: 18

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

- A. Mode
- B. None of these
- C. Percentage of missing values
- D. Mode, number of unique values, and percentage of missing values
- E. Number of unique values

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 19

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

Answer: ([SHOW ANSWER](#)**)**

NEW QUESTION: 20

Which of the following machine learning model deployment paradigms is the most common for machine learning projects?

- A. Streaming
- B. On-device
- C. None of these deployments
- D. Batch
- E. Real-time

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 21

A machine learning engineer is manually refreshing a model in an existing machine learning pipeline. The pipeline uses the MLflow Model Registry model "project". The machine learning engineer would like to add a new version of the model to "project".

Which of the following MLflow operations can the machine learning engineer use to accomplish this task?

- A. The machine learning engineer needs to create an entirely new MLflow Model Registry model
- B. `MlflowClient.get_model_version`
- C. `mlflow.add_model_version`
- D. `mlflow.register_model`
- E. `MlflowClient.update_registered_model`

Answer: E ([LEAVE A REPLY](#))

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