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Databricks Databricks-Machine-Learning-Professional Exam Syllabus Topics:

Topic	Details
Topic 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
Topic 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
Topic 3	<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
Topic 4	<ul style="list-style-type: none"> Identify JIT feature values as a need for real-time deployment Describe how to list all webhooks and how to delete a webhook
Topic 5	<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
Topic 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
Topic 7	<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

Topic 8	<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
Topic 9	<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
Topic 10	<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

>> Verified Databricks-Machine-Learning-Professional Answers <<

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Databricks Certified Machine Learning Professional Sample Questions (Q125-Q130):

NEW QUESTION # 125

A Data Scientist has been performing hyperparameter tuning using Ray Tune with grid search. After team discussions, they decide to switch to Bayesian optimization to more efficiently explore the parameter space. Their current code is:

```
param_space = {
    "n_estimators": tune.grid_search([10, 50, 100, 200])
}
tuner = tune.Tuner(
    train_model,
    param_space=param_space
)
```

How can they implement this change?

```
param_space = {
    "n_estimators": tune.randint(10, 200)
}

tuner = tune.Tuner(
    train_model,
    param_space=param_space,
    tune_config=tune.TuneConfig(
        search_alg=BayesOptSearch(),
        num_samples=50
    )
)
```

- A.

```

)
param_space = {
    "n_estimators": tune.randint(10, 200)
}
tuner = tune.Tuner(
    train_model,
    param_space=param_space,
    tune_config=tune.TuneConfig(
        search_alg=RandomSearch(),
        num_samples=50
    )
)

```

• B.)

```

param_space = {
    "n_estimators": tune.choice([10, 50, 100, 200])
}
tuner = tune.Tuner(
    train_model,
    param_space=param_space,
    tune_config=tune.TuneConfig(
        search_alg=BayesOptSearch(),
        num_samples=50
    )
)

```

• C.)

```

param_space = {
    "n_estimators": tune.grid_search([10, 50, 100, 200])
}
tuner = tune.Tuner(
    train_model,
    param_space=param_space,
    tune_config=tune.TuneConfig(
        search_alg=BayesOptSearch(),
        num_samples=50
    )
)

```

• D.)

Answer: A

Explanation:

Bayesian optimization in Ray Tune requires defining a continuous or discrete search space (such as `tune.randint`) and explicitly configuring a Bayesian search algorithm. Using `tune.randint` defines a probabilistic parameter domain, and setting `search_alg` to `BayesOptSearch` enables Bayesian optimization to efficiently explore the space based on past trial results, rather than exhaustively enumerating all values as in grid search.

NEW QUESTION # 126

In order to connect an MLflow Model Registry Webhook to a Databricks Job, the Job ID must be provided to the code block used to create the webhook. Which approach can be used to obtain a Databricks Job ID?

- A. The Job ID field in the Job details section of the specific Job page in the UI
- B. The Job ID field returned in a query using the Jobs API
- C. The Job ID field in the Jobs page in the UI
- D. All of these approaches

Answer: D

Explanation:

A Databricks Job ID can be obtained in multiple ways - it is displayed directly in the Jobs page, in the Job details section of a specific Job, and can also be retrieved programmatically through the Databricks Jobs API. Any of these methods can be used to supply the Job ID when configuring an MLflow Model Registry Webhook.

NEW QUESTION # 127

A data scientist wants to examine the data in the Feature Store table from the database dev as a Spark DataFrame. They have access to Feature Store Client `fs`. Which line of code can be used to get the data from table as a Spark DataFrame?

- A. fs.create_table("dev.table")
- B. fs.get_table("table")
- C. fs.read_table("dev.table")
- D. fs.get_table("dev.table")

Answer: C

Explanation:

To read data from a Feature Store table as a Spark DataFrame, the correct method is fs.read_table("dev.table"). This retrieves the contents of the table in the dev database using the Feature Store Client (fs) and returns it as a Spark DataFrame.

NEW QUESTION # 128

A machine learning engineer has detected that concept drift is occurring in a production machine learning application. Which result is the impact of concept drift?

- A. The model's efficacy will increase
- B. The model's latency will decrease
- C. The model's efficacy will decrease
- D. The model's latency will increase

Answer: C

Explanation:

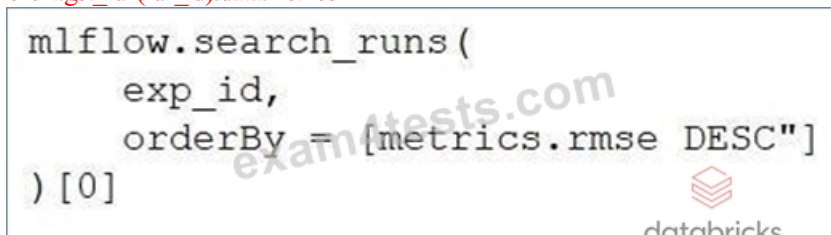
Concept drift occurs when the relationship between input features and the target variable changes over time. This leads to a decrease in the model's efficacy, as the model is no longer accurately capturing the underlying data patterns it was trained on.

NEW QUESTION # 129

A data scientist is utilizing MLflow to track their machine learning experiments. After completing a run with run ID run_id for the experiment with experiment ID exp_id, the data scientist wants to programmatically return the logged metrics for run_id. They have an active MLflow Client client and an active Spark session spark. Which lines of code can be used to return the logged metrics for run_id?

- A. client.get_run(run_id).data.metrics

```
mlflow.search_runs(
    exp_id,
    orderBy = ["metrics.rmse DESC"]
) [0]
```



- B.
- C. client.get_run(exp_id.run_id).data.metrics
- D. spark.read.format("mlflow-run").load(run_id)

Answer: A

Explanation:

The correct way to retrieve logged metrics for a specific run using the MLflow Client is client.get_run(run_id).data.metrics. This returns a dictionary of all metrics logged for that run. The method in the image (mlflow.search_runs(...)) is for querying across multiple runs, not for accessing a specific run's metrics.

NEW QUESTION # 130

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