

# Exam Databricks-Machine-Learning-Professional Tutorial | Databricks-Machine-Learning-Professional Real Dump



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Are you preparing for taking the Databricks Certified Machine Learning Professional (Databricks-Machine-Learning-Professional) certification exam? We understand that passing the Databricks-Machine-Learning-Professional exam with ease is your goal. However, many people struggle because they rely on the wrong study materials. That's why it's crucial to prepare for the Databricks-Machine-Learning-Professional Exam using the right Databricks-Machine-Learning-Professional Exam Questions learning material. Look no further than Exams4sures, where we take responsibility for providing accurate and reliable Databricks Databricks-Machine-Learning-Professional questions prepared by our team of experts.

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

| Section                                 | Objectives                                                                                                                                                                                                                                                                                                            |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Topic 1: MLflow and Experiment Tracking | <ul style="list-style-type: none"><li>- Experiment management<ul style="list-style-type: none"><li>• 1. Model comparison and selection</li><li>• 2. Tracking runs and parameters</li></ul></li><li>- Model registry<ul style="list-style-type: none"><li>• 1. Versioning and lifecycle management</li></ul></li></ul> |
| Topic 2: Model Deployment and Serving   | <ul style="list-style-type: none"><li>- Model deployment strategies<ul style="list-style-type: none"><li>• 1. Batch inference vs real-time inference</li><li>• 2. Databricks Model Serving</li></ul></li></ul>                                                                                                        |
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|--------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Topic 3: MLOps, Monitoring, and Governance       | <ul style="list-style-type: none"> <li>- Model monitoring <ul style="list-style-type: none"> <li>• 1. Data drift detection</li> <li>• 2. Performance tracking in production</li> </ul> </li> <li>- Governance and compliance <ul style="list-style-type: none"> <li>• 1. Model lifecycle governance</li> <li>• 2. Feature Store usage and management</li> </ul> </li> </ul>                                        |
| Topic 4: Machine Learning Workflow on Databricks | <ul style="list-style-type: none"> <li>- End-to-end ML pipelines <ul style="list-style-type: none"> <li>• 1. Reusable ML workflows</li> <li>• 2. Pipeline construction and orchestration</li> </ul> </li> <li>- Data preparation and feature engineering <ul style="list-style-type: none"> <li>• 1. Feature engineering techniques</li> <li>• 2. Data ingestion and cleaning in Databricks</li> </ul> </li> </ul> |
| Topic 5: Machine Learning Models and Algorithms  | <ul style="list-style-type: none"> <li>- Unsupervised learning methods <ul style="list-style-type: none"> <li>• 1. Dimensionality reduction</li> <li>• 2. Clustering techniques</li> </ul> </li> <li>- Supervised learning methods <ul style="list-style-type: none"> <li>• 1. Model evaluation metrics</li> <li>• 2. Classification and regression models</li> </ul> </li> </ul>                                  |

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## Databricks Certified Machine Learning Professional Sample Questions (Q66-Q71):

### NEW QUESTION # 66

A machine learning engineer wants to move their model version `model_version` for the MLflow Model Registry model `model` from the Staging stage to the Production stage using MLflow Client client. At the same time, they would like to archive any model versions that are already in the Production stage.

Which of the following code blocks can they use to accomplish the task?

• A.

```
client.transition_model_stage(
    name=model,
    version=model_version,
    stage="Production",
    archive_existing_versions=True
)
```

databricks

```

client.transition_model_stage(
    name=model,
    version=model_version,
    stage="Archived"
)
client.transition_model_stage(
    name=model,
    version=model_version,
    stage="Production"
)

```

• B.

```

client.transition_model_version_stage(
    name=model,
    version=model_version,
    stage="Production",
    archive_existing_versions=True
)

```

• C.

```

client.transition_model_version_stage(
    name=model,
    version=model_version,
    stage="Archived"
)
client.transition_model_version_stage(
    name=model,
    version=model_version,
    stage="Production"
)

```

• D.)

**Answer: A**

#### NEW QUESTION # 67

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

**Answer: A**

#### NEW QUESTION # 68

Which stage in the MLflow Model Registry is typically used for models currently serving production traffic?

- A. Production
- B. Staging

- C. Archived
- D. None

**Answer: A**

Explanation:

In MLflow Model Registry stages:

Staging -> testing before release

Production -> serving real users

Archived -> retired models

#### NEW QUESTION # 69

A Machine Learning Engineer has a production AI model that predicts fraudulent transactions in real time. This model is integrated into critical business workflows and any downtime could result in significant financial loss and regulatory penalties. The engineer needs to deploy a new, improved version of the model to production to replace the existing model. The bank's fairness policy requires that all transactions be exposed to the same model at any given time. Additionally, the deployment must meet the following requirements:

- Zero downtime: The fraud detection service must remain continuously available to users and downstream systems.
- Immediate rollback: If the new model causes issues, you must be able to revert to the previous version instantly.

Which deployment strategy meets these requirements?

- A. Rolling
- B. Canary
- C. Blue-Green
- D. Shadow

**Answer: C**

Explanation:

Blue-green deployment maintains two fully operational production environments and switches all traffic from the old model to the new model at once. This guarantees zero downtime and ensures that all transactions are handled by the same model version at any given time. If issues arise, traffic can be immediately switched back to the previous environment, enabling instant rollback while meeting strict fairness and availability requirements.

#### NEW QUESTION # 70

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 tool can be used to provide this type of continuous processing?

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

**Answer: B**

#### NEW QUESTION # 71

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