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# Databricks Certified Machine Learning Associate Exam Sample Questions (Q36-Q41):

# **NEW QUESTION #36**

Which of the following describes the relationship between native Spark DataFrames and pandas API on Spark DataFrames?

- A. pandas API on Spark DataFrames are made up of Spark DataFrames and additional metadata
- B. pandas API on Spark DataFrames are single-node versions of Spark DataFrames with additional metadata
- C. pandas API on Spark DataFrames are less mutable versions of Spark DataFrames
- D. pandas API on Spark DataFrames are more performant than Spark DataFrames

## Answer: A

#### Explanation:

The pandas API on Spark DataFrames are made up of Spark DataFrames with additional metadata. The pandas API on Spark aims to provide the pandas-like experience with the scalability and distributed nature of Spark. It allows users to work with pandas

functions on large datasets by leveraging Spark's underlying capabilities.

Reference:

Databricks documentation on pandas API on Spark: pandas API on Spark

## **NEW QUESTION #37**

A data scientist has produced three new models for a single machine learning problem. In the past, the solution used just one model. All four models have nearly the same prediction latency, but a machine learning engineer suggests that the new solution will be less time efficient during inference.

In which situation will the machine learning engineer be correct?

- A. When the new solution's models have an average size that is larger than the size of the original model
- B. When the new solution's models have an average latency that is larger than the size of the original model
- C. When the new solution requires that each model computes a prediction for every record
- D. When the new solution requires if-else logic determining which model to use to compute each prediction
- E. When the new solution requires the use of fewer feature variables than the original model

#### Answer: C

#### Explanation:

If the new solution requires that each of the three models computes a prediction for every record, the time efficiency during inference will be reduced. This is because the inference process now involves running multiple models instead of a single model, thereby increasing the overall computation time for each record.

In scenarios where inference must be done by multiple models for each record, the latency accumulates, making the process less time efficient compared to using a single model.

Reference:

Model Ensemble Techniques

#### **NEW QUESTION #38**

A data scientist has been given an incomplete notebook from the data engineering team. The notebook uses a Spark DataFrame spark\_df on which the data scientist needs to perform further feature engineering. Unfortunately, the data scientist has not yet learned the PySpark DataFrame API.

Which of the following blocks of code can the data scientist run to be able to use the pandas API on Spark?

- A. spark df.to pandas()
- B. import pyspark.pandas as ps df= ps.to pandas(spark df)
- C. import pyspark.pandas as ps df= ps.DataFrame(spark df)
- D. import pandas as pd df= pd.DataFrame(spark\_df)
- E. spark df.to sql()

#### Answer: C

#### Explanation:

To use the pandas API on Spark, which is designed to bridge the gap between the simplicity of pandas and the scalability of Spark, the correct approach involves importing the pyspark.pandas (recently renamed to pandas\_api\_on\_spark) module and converting a Spark DataFrame to a pandas-on-Spark DataFrame using this API. The provided syntax correctly initializes a pandas-on-Spark DataFrame, allowing the data scientist to work with the familiar pandas-like API on large datasets managed by Spark. Reference

Pandas API on Spark Documentation: https://spark.apache.org/docs/latest/api/python/user guide/pandas on spark/index.html

# **NEW QUESTION #39**

Which of the following evaluation metrics is not suitable to evaluate runs in AutoML experiments for regression problems?

- A. MAE
- B. MSE

- C. F1
- D. R-squared

#### Answer: C

### Explanation:

The code block provided by the machine learning engineer will perform the desired inference when the Feature Store feature set was logged with the model at model\_uri. This ensures that all necessary feature transformations and metadata are available for the model to make predictions. The Feature Store in Databricks allows for seamless integration of features and models, ensuring that the required features are correctly used during inference.

Reference:

Databricks documentation on Feature Store: Feature Store in Databricks

#### **NEW QUESTION #40**

A data scientist wants to use Spark ML to impute missing values in their PySpark DataFrame features\_df. They want to replace missing values in all numeric columns in features\_df with each respective numeric column's median value.

They have developed the following code block to accomplish this task:

```
imputer = Imputer(
    databricks = "median",
    inputCols=input_columns;
    outputCols=output_columns
)
imputed features df = imputer.transform(features df)
```

The code block is not accomplishing the task.

Which reasons describes why the code block is not accomplishing the imputation task?

- A. The fit method needs to be called instead of transform.
- B. It does not impute both the training and test data sets.
- C. The inputCols and outputCols need to be exactly the same.
- D. It does not fit the imputer on the data to create an ImputerModel.

### Answer: D

#### Explanation:

In the provided code block, the Imputer object is created but not fitted on the data to generate an ImputerModel. The transform method is being called directly on the Imputer object, which does not yet contain the fitted median values needed for imputation. The correct approach is to fit the imputer on the dataset first.

Corrected code:

 $imputer = Imputer(strategy="median", inputCols=input\_columns, outputCols=output\_columns) imputer\_model = imputer.fit(features\_df) \# Fit the imputer to the data imputed\_features\_df = imputer\_model.transform(features\_df) \# Transform the data using the fitted imputer Reference:$ 

PySpark ML Documentation

#### **NEW QUESTION #41**

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