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Databricks Certified Machine Learning Associate Exam Sample Questions (Q12-Q17):

NEW QUESTION # 12
The implementation of linear regression in Spark ML first attempts to solve the linear regression problem using matrix decomposition, but this method does not scale well to large datasets with a large number of variables.
Which of the following approaches does Spark ML use to distribute the training of a linear regression model for large data?

- A. Logistic regression
- B. Singular value decomposition
- C. Spark ML cannot distribute linear regression training

- D. Least-squares method
- E. Iterative optimization

Answer: E

NEW QUESTION # 13
Which of the following machine learning algorithms typically uses bagging?

- A. IGradient boosted trees
- B. Random forest
- C. Decision tree
- D. K-means

Answer: B

Explanation:
Random Forest is a machine learning algorithm that typically uses bagging (Bootstrap Aggregating). Bagging is a technique that involves training multiple base models (such as decision trees) on different subsets of the data and then combining their predictions to improve overall model performance. Each subset is created by randomly sampling with replacement from the original dataset. The Random Forest algorithm builds multiple decision trees and merges them to get a more accurate and stable prediction.
Reference:
Databricks documentation on Random Forest: Random Forest in Spark ML

NEW QUESTION # 14
Which of the following tools can be used to distribute large-scale feature engineering without the use of a UDF or pandas Function API for machine learning pipelines?

- A. Spark ML
- B. Scikit-learn
- C. Keras
- D. pandas
- E. PyTorch

Answer: A

Explanation:
Spark ML (Machine Learning Library) is designed specifically for handling large-scale data processing and machine learning tasks directly within Apache Spark. It provides tools and APIs for large-scale feature engineering without the need to rely on user-defined functions (UDFs) or pandas Function API, allowing for more scalable and efficient data transformations directly distributed across a Spark cluster. Unlike Keras, pandas, PyTorch, and scikit-learn, Spark ML operates natively in a distributed environment suitable for big data scenarios.
Reference:
Spark MLlib documentation (Feature Engineering with Spark ML).

NEW QUESTION # 15
A data scientist has defined a Pandas UDF function predict to parallelize the inference process for a single-node model:

```
@pandas_udf("double")
def predict(iterator: Iterator[pd.DataFrame]) -> Iterator[pd.Series]:
    model_path = f"runs:/{run.info.run_id}/model"
    model = mlflow.sklearn.load_model(model_path)
    for features in iterator:
        pdf = pd.concat(features, axis=1)
        yield pd.Series(model.predict(pdf))
```


They have written the following incomplete code block to use predict to score each record of Spark DataFrame spark_df:

```
prediction_df = spark_df.withColumn(
    "prediction",
    _____
)
```


Which of the following lines of code can be used to complete the code block to successfully complete the task?

- A. mapInPandas(predict)
- B. mapInPandas(predict(spark_df.columns))
- C. predict(*spark_df.columns)
- D. predict(Iterator(spark_df))
- E. predict(spark_df.columns)

Answer: A

Explanation:
To apply the Pandas UDF predict to each record of a Spark DataFrame, you use the mapInPandas method. This method allows the Pandas UDF to operate on partitions of the DataFrame as pandas DataFrames, applying the specified function (predict in this case) to each partition. The correct code completion to execute this is simply mapInPandas(predict), which specifies the UDF to use without additional arguments or incorrect function calls.
Reference:
PySpark DataFrame documentation (Using mapInPandas with UDFs).

NEW QUESTION # 16
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 requires the use of fewer feature variables than the original model
- B. When the new solution requires that each model computes a prediction for every record
- C. When the new solution's models have an average latency that is larger than the size of the original model
- D. When the new solution requires if-else logic determining which model to use to compute each prediction
- E. When the new solution's models have an average size that is larger than the size of the original model

Answer: B

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 # 17
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