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

Topic	Details
Topic 1	• Databricks Machine Learning: It covers sub-topics of AutoML, Databricks Runtime, Feature Store, and MLflow.
Topic 2	• ML Workflows: The topic focuses on Exploratory Data Analysis, Feature Engineering, Training, Evaluation and Selection.
Topic 3	• Scaling ML Models: This topic covers Model Distribution and Ensembling Distribution.
Topic 4	• Spark ML: It discusses the concepts of Distributed ML. Moreover, this topic covers Spark ML Modeling APIs, Hyperopt, Pandas API, Pandas UDFs, and Function APIs.

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Databricks Certified Machine Learning Associate Exam Sample Questions (Q32-Q37):

NEW QUESTION # 32
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 more performant than Spark DataFrames
- C. pandas API on Spark DataFrames are single-node versions of Spark DataFrames with additional metadata
- D. pandas API on Spark DataFrames are less mutable versions of 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

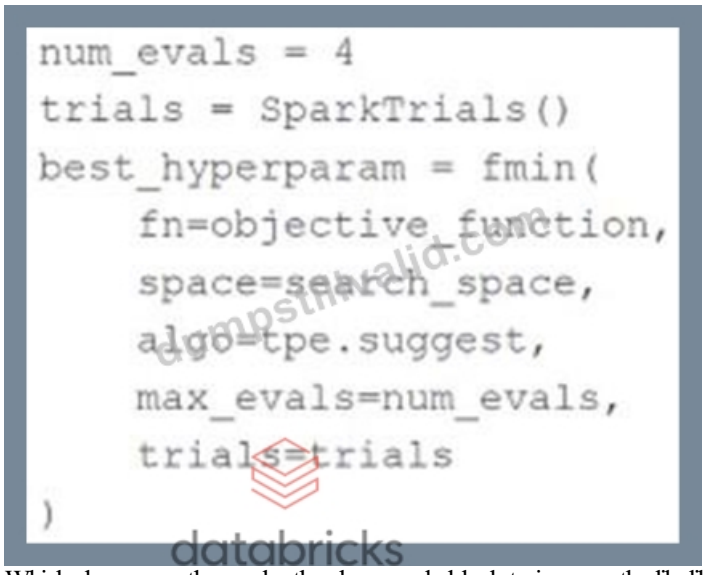
NEW QUESTION # 33
The implementation of linear regression in Spark ML first attempts to solve the linear regression problem using matrix decomposition, but this method does not scale well to large datasets with a large number of variables.
Which of the following approaches does Spark ML use to distribute the training of a linear regression model for large data?

- A. Least-squares method
- B. Iterative optimization
- C. Logistic regression
- D. Singular value decomposition

Answer: B

Explanation:
For large datasets, Spark ML uses iterative optimization methods to distribute the training of a linear regression model. Specifically, Spark MLlib employs techniques like Stochastic Gradient Descent (SGD) and Limited-memory Broyden-Fletcher-Goldfarb-Shanno (L-BFGS) optimization to iteratively update the model parameters. These methods are well-suited for distributed computing environments because they can handle large-scale data efficiently by processing mini-batches of data and updating the model incrementally.
Reference:
Databricks documentation on linear regression: Linear Regression in Spark ML

NEW QUESTION # 34
A data scientist is using the following code block to tune hyperparameters for a machine learning model:



Which change can they make the above code block to improve the likelihood of a more accurate model?

- A. Change sparkTrials() to Trials()
- B. Increase num_evals to 100
- C. Change tpe.suggest to random.suggest
- D. Change fmin() to fmax()

Answer: B

Explanation:
To improve the likelihood of a more accurate model, the data scientist can increase num_evals to 100. Increasing the number of evaluations allows the hyperparameter tuning process to explore a larger search space and evaluate more combinations of hyperparameters, which increases the chance of finding a more optimal set of hyperparameters for the model.
Reference:
Databricks documentation on hyperparameter tuning: Hyperparameter Tuning

NEW QUESTION # 35
Which of the following machine learning algorithms typically uses bagging?

- A. Random forest
- B. K-means
- C. Linear regression
- D. Gradient boosted trees
- E. Decision tree

Answer: A

Explanation:
Random Forest is a machine learning algorithm that typically uses bagging (Bootstrap Aggregating). Bagging involves training multiple models independently on different random subsets of the data and then combining their predictions. Random Forests consist of many decision trees trained on random subsets of the training data and features, and their predictions are averaged to improve accuracy and control overfitting. This method enhances model robustness and predictive performance.
Reference:
Ensemble Methods in Machine Learning (Understanding Bagging and Random Forests).

NEW QUESTION # 36
A data scientist has developed a random forest regressor rfr and included it as the final stage in a Spark MLPipeline pipeline. They then set up a cross-validation process with pipeline as the estimator in the following code block:

```
pipeline = [string_indexer, vector_assembler, rfr]
cv = CrossValidator(
    estimator=pipeline,
    evaluator=evaluator,
    estimatorParamMaps=param_grid,
    numFolds=3,
    seed=42
)
cv_model = cv.fit(train_df)
```


Which of the following is a negative consequence of including pipeline as the estimator in the cross-validation process rather than rfr as the estimator?

- A. The process will leak data from the training set to the test set during the evaluation phase
- B. The process will have a longer runtime because all stages of pipeline need to be refit or retransformed with each mode
- C. The process will be unable to parallelize tuning due to the distributed nature of pipeline
- D. The process will leak data prep information from the validation sets to the training sets for each model

Answer: B

Explanation:
Including the entire pipeline as the estimator in the cross-validation process means that all stages of the pipeline, including data preprocessing steps like string indexing and vector assembling, will be refit or retransformed for each fold of the cross-validation. This results in a longer runtime because each fold requires re-execution of these preprocessing steps, which can be computationally expensive.
If only the random forest regressor (rfr) were included as the estimator, the preprocessing steps would be performed once, and only the model fitting would be repeated for each fold, significantly reducing the computational overhead.
Reference:
Databricks documentation on cross-validation: Cross Validation

NEW QUESTION # 37
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