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

Topic	Details
Topic 1	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.
Topic 2	Databricks Machine Learning: It covers sub-topics of AutoML, Databricks Runtime, Feature Store, and MLflow.
Topic 3	Scaling ML Models: This topic covers Model Distribution and Ensembling Distribution.
Topic 4	ML Workflows: The topic focuses on Exploratory Data Analysis, Feature Engineering, Training, Evaluation and Selection.

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Databricks Certified Machine Learning Associate Exam Sample Questions (Q20-Q25):

NEW QUESTION # 20

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

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

Answer: B

Explanation:

Pandas API on Spark (previously known as Koalas) provides a pandas-like API on top of Apache Spark. It allows users to perform pandas operations on large datasets using Spark's distributed compute capabilities. Internally, it uses Spark DataFrames and adds metadata that facilitates handling operations in a pandas-like manner, ensuring compatibility and leveraging Spark's performance and scalability.

Reference:

pandas API on Spark documentation: https://spark.apache.org/docs/latest/api/python/user_guide/pandas_on_spark/index.html

NEW QUESTION # 21

A new data scientist has started working on an existing machine learning project. The project is a scheduled Job that retrains every day. The project currently exists in a Repo in Databricks. The data scientist has been tasked with improving the feature engineering of the pipeline's preprocessing stage. The data scientist wants to make necessary updates to the code that can be easily adopted into the project without changing what is being run each day.

Which approach should the data scientist take to complete this task?

- A. They can create a new Git repository, import it into Databricks, and copy and paste the existing code from the original repository before making changes.
- **B. They can create a new branch in Databricks, commit their changes, and push those changes to the Git provider.**
- C. They can clone the notebooks in the repository into a new Databricks Repo and make the necessary changes.
- D. They can clone the notebooks in the repository into a Databricks Workspace folder and make the necessary changes.

Answer: B

Explanation:

The best approach for the data scientist to take in this scenario is to create a new branch in Databricks, commit their changes, and push those changes to the Git provider. This approach allows the data scientist to make updates and improvements to the feature engineering part of the preprocessing pipeline without affecting the main codebase that runs daily. By creating a new branch, they can work on their changes in isolation. Once the changes are ready and tested, they can be merged back into the main branch through a pull request, ensuring a smooth integration process and allowing for code review and collaboration with other team members.

Reference:

Databricks documentation on Git integration: Databricks Repos

NEW QUESTION # 22

A team is developing guidelines on when to use various evaluation metrics for classification problems. The team needs to provide input on when to use the F1 score over accuracy.

$$2 \times \frac{\text{precision} \times \text{recall}}{(\text{precision} + \text{recall})}$$

Which of the following suggestions should the team include in their guidelines?

- A. The F1 score should be utilized over accuracy when there are greater than two classes in the target variable.
- B. The F1 score should be utilized over accuracy when the number of actual positive cases is identical to the number of actual negative cases.
- C. The F1 score should be utilized over accuracy when identifying true positives and true negatives are equally important to the business problem.
- **D. The F1 score should be utilized over accuracy when there is significant imbalance between positive and negative classes and avoiding false negatives is a priority.**

Answer: D

Explanation:

The F1 score is the harmonic mean of precision and recall and is particularly useful in situations where there is a significant imbalance between positive and negative classes. When there is a class imbalance, accuracy can be misleading because a model can achieve high accuracy by simply predicting the majority class. The F1 score, however, provides a better measure of the test's accuracy in terms of both false positives and false negatives.

Specifically, the F1 score should be used over accuracy when:

There is a significant imbalance between positive and negative classes.

Avoiding false negatives is a priority, meaning recall (the ability to detect all positive instances) is crucial.

In this scenario, the F1 score balances both precision (the ability to avoid false positives) and recall, providing a more meaningful measure of a model's performance under these conditions.

Reference:

Databricks documentation on classification metrics: [Classification Metrics](#)

NEW QUESTION # 23

A data scientist is wanting to explore the Spark DataFrame `spark_df`. The data scientist wants visual histograms displaying the distribution of numeric features to be included in the exploration.

Which of the following lines of code can the data scientist run to accomplish the task?

- A. `dbutils.data.summarize(spark_df)`
- B. `spark_df.summary()`
- C. This task cannot be accomplished in a single line of code.
- D. `dbutils.data(spark_df).summarize()`
- E. `spark_df.describe()`

Answer: A

Explanation:

To display visual histograms and summaries of the numeric features in a Spark DataFrame, the Databricks utility function `dbutils.data.summarize` can be used. This function provides a comprehensive summary, including visual histograms.

Correct code:

```
dbutils.data.summarize(spark_df)
```

Other options like `spark_df.describe()` and `spark_df.summary()` provide textual statistical summaries but do not include visual histograms.

Reference:

Databricks Utilities Documentation

NEW QUESTION # 24

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

```
pipeline = [StringIndexer, VectorAssembler, 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 be unable to parallelize tuning due to the distributed nature of `pipeline`

- 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 leak data prep information from the validation sets to the training sets for each model
- D. The process will leak data from the training set to the test set during the evaluation phase

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 (rf) 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 # 25

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