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

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>• Describe the advantages of using the pyfunc MLflow flavor</li><li>• Manually log parameters, models, and evaluation metrics using MLflow</li></ul>
Topic 2	<ul style="list-style-type: none"><li>• Identify the requirements for tracking nested runs</li><li>• Describe an MLflow flavor and the benefits of using MLflow flavors</li></ul>

Topic 3	<ul style="list-style-type: none"> <li>• Identify less performant data storage as a solution for other use cases</li> <li>• Describe why complex business logic must be handled in streaming deployments</li> </ul>
Topic 4	<ul style="list-style-type: none"> <li>• Identify a use case for HTTP webhooks and where the Webhook URL needs to come</li> <li>• Identify advantages of using Job clusters over all-purpose clusters</li> </ul>
Topic 5	<ul style="list-style-type: none"> <li>• Identify which code block will trigger a shown webhook</li> <li>• Describe the basic purpose and user interactions with Model Registry</li> </ul>
Topic 6	<ul style="list-style-type: none"> <li>• Identify live serving benefits of querying precomputed batch predictions</li> <li>• Describe Structured Streaming as a common processing tool for ETL pipelines</li> </ul>
Topic 7	<ul style="list-style-type: none"> <li>• Create, overwrite, merge, and read Feature Store tables in machine learning workflows</li> <li>• View Delta table history and load a previous version of a Delta table</li> </ul>
Topic 8	<ul style="list-style-type: none"> <li>• Identify that data can arrive out-of-order with structured streaming</li> <li>• Identify how model serving uses one all-purpose cluster for a model deployment</li> </ul>
Topic 9	<ul style="list-style-type: none"> <li>• Describe model serving deploys and endpoint for every stage</li> <li>• Identify scenarios in which feature drift and</li> <li>• or label drift are likely to occur</li> </ul>
Topic 10	<ul style="list-style-type: none"> <li>• Test whether the updated model performs better on the more recent data</li> <li>• Identify when retraining and deploying an updated model is a probable solution to drift</li> </ul>

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### **Databricks Certified Machine Learning Professional Sample Questions (Q61-Q66):**

#### **NEW QUESTION # 61**

Which of the following is a drawback associated with using Jensen-Shannon (JS) distance for numeric feature drift detection?

- A. All of these reasons
- **B. JS requires a manual threshold or cutoff determinations**
- C. JS is not robust when working with large datasets
- D. None of these reasons

**Answer: B**

Explanation:

A key drawback of using Jensen-Shannon (JS) distance for numeric feature drift detection is that it requires manual threshold tuning to determine what level of divergence indicates significant drift. This makes automation and consistent interpretation challenging, especially across features or datasets with differing distributions.

#### **NEW QUESTION # 62**

A Data Scientist needs to perform inference on a continuously updated Delta table called `sales_data` using an MLflow-registered Spark ML pipeline model (`catalog.prod.sales_forecaster`). Predictions must be written to a Delta table `forecast_results`, which must be updated with low latency leveraging a cluster with three executors. They want to maximize the efficient use of their cluster when doing this. Which approach will suit their needs?

- A.

```
model_udf = mlflow.pyfunc.spark_udf(spark, "models:/catalog.prod.sales_forecaster@latest")
scored_df = spark.readStream.table("sales_data")
    .withColumn("prediction", model_udf(struct(*feature_cols)))
(scored_df.writeStream
    .format("delta")
    .outputMode("append")
    .option("checkpointLocation", "/Volumes/catalog/prod/checkpoints/forecast")
    .toTable("forecast_results")
    .start())
```

```
client = mlflow.deployments.get_deploy_client("databricks")
scored_df = client.predict("sales_forecaster-endpoint", spark.table("sales_data"))
scored_df.write.saveAsTable("forecast_results")
```

- B.
- C.

```
model = mlflow.pyfunc.load_model("models:/catalog.prod.sales_forecaster/latest")
def predict_batch(batch_df, batch_id):
    pandas_df = batch_df.toPandas()
    pandas_df["prediction"] = model.predict(pandas_df[feature_cols])
(spark.readStream.table("sales_data")
    .writeStream
    .foreachBatch(predict_batch)
    .outputMode("append")
    .option("checkpointLocation", "/Volumes/catalog/prod/checkpoints/forecast")
    .toTable("forecast_results")
    .start())
```

```
model_uri = "models:/catalog.prod.sales_forecaster@latest"
predict_udf = mlflow.pyfunc.spark_udf(spark, model_uri)
scored_df = spark.table("sales_data").withColumn("prediction", predict_udf(*feature_cols))
scored_df.write.saveAsTable("forecast_results")
```

- D.

**Answer: A**

Explanation:

This approach uses a Spark Structured Streaming read from the continuously updated Delta table and applies an MLflow-registered Spark UDF for inference. The model execution is distributed across the three executors, enabling parallel, low-latency scoring as new data arrives. Writing the results with `writeStream` efficiently updates the `forecast_results` Delta table incrementally, maximizing cluster utilization and aligning with best practices for continuous, scalable batch-stream inference in Databricks.

**NEW QUESTION # 63**

Which of the following describes concept drift?

- A. Concept drift is when there is a change in the distribution of an input variable
- B. None of these describe Concept drift
- C. Concept drift is when there is a change in the distribution of a target variable
- D. Concept drift is when there is a change in the distribution of the predicted target given by the model
- E. Concept drift is when there is a change in the relationship between input variables and target variables

**Answer: D**

### NEW QUESTION # 64

A Machine Learning Engineer needs to digitize millions of historical documents spanning 200+ years with vastly different handwriting styles, fonts, languages, document conditions, and paper types. To do this, the engineer wants to train thousands of specialized OCR models to extract text. The number of documents vary significantly. They need an efficient approach for this parallel model training task. Which approach suits their needs?

- A. Use Ray map\_in\_batches to allocate resources based on the various sizes of models and data volumes.
- B. Use Scikit-learn's ML library within a Pandas UDF to parallelize training across data partitions.  
Use groupby.applyInPandas.
- C. Use Spark for data preprocessing and orchestrate parallel model training jobs through Databricks workflows.
- D. Use Spark MLlib with custom Spark UDFs to distribute across partitions.

**Answer: A**

Explanation:

Ray's map\_in\_batches API is designed for large-scale, heterogeneous parallel workloads where tasks vary significantly in data size, model complexity, and resource requirements. It enables dynamic resource allocation and efficient scheduling across many specialized OCR training jobs, making it well suited for training thousands of models with uneven document volumes and computational needs.

### NEW QUESTION # 65

A data scientist has developed a model to predict ice cream sales using the expected temperature and expected number of hours of sun in the day. However, the expected temperature is dropping beneath the range of the input variable on which the model was trained.

Which type of drift is present in the above scenario?

- A. None of these
- B. Concept drift
- C. Label drift
- D. Prediction drift
- E. Feature drift

**Answer: E**

### NEW QUESTION # 66

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