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Question 1

Question Type: MultipleChoice

A machine learning engineer wants to deploy a model for real-time serving using MLflow Model Serving. For the model, the machine learning engineer currently has one model version in each of the stages in the MLflow Model Registry. The engineer wants to know which model versions can be queried once Model Serving is enabled for the model.

Which of the following lists all of the MLflow Model Registry stages whose model versions are automatically deployed with Model Serving?

Options:

A- Staging. Production. Archived

B- Production

C- None. Staging. Production. Archived

D- Staging. Production

E- [None. Staging. Production

Answer:

D

Question 2

Question Type: MultipleChoice

A machine learning engineering team wants to build a continuous pipeline for data preparation of a machine learning application. The team would like the data to be fully processed and made ready for inference in a series of equal-sized batches.

Which of the following tools can be used to provide this type of continuous processing?

Options:

A- Spark UDFs

B- [Structured Streaming

C- MLflow

D Delta Lake

E- AutoML

Answer:

A

Question 3

Question Type: MultipleChoice

Which of the following deployment paradigms can centrally compute predictions for a single record with exceedingly fast results?

Options:

A- Streaming

B- Batch

C- Edge/on-device

D- None of these strategies will accomplish the task.

E- Real-time

Answer:

A

Question 4

Question Type: MultipleChoice

A machine learning engineer and data scientist are working together to convert a batch deployment to an always-on streaming deployment. The machine learning engineer has expressed that rigorous data tests must be put in place as a part of their conversion to account for potential changes in data formats.

Which of the following describes why these types of data type tests and checks are particularly important for streaming deployments?

Options:

A- Because the streaming deployment is always on, all types of data must be handled without producing an error

B- All of these statements

C- Because the streaming deployment is always on, there is no practitioner to debug poor model performance

D- Because the streaming deployment is always on, there is a need to confirm that the deployment can autoscale

E- None of these statements

Answer:

D

Question 5

Question Type: **MultipleChoice**

A data scientist has developed a scikit-learn random forest model model, but they have not yet logged model with MLflow. They want to obtain the input schema and the output schema of the model so they can document what type of data is expected as input.

Which of the following MLflow operations can be used to perform this task?

Options:

A- mlflow.models.schema.infer_schema

B- mlflow.models.signature.infer_signature

C- mlflow.models.Model.get_input_schema

D- mlflow.models.Model.signature

E- There is no way to obtain the input schema and the output schema of an unlogged model.

Answer:

A

Question 6

Question Type: **MultipleChoice**

Which of the following MLflow operations can be used to automatically calculate and log a Shapley feature importance plot?

Options:

A- mlflow.shap.log_explanation

B- None of these operations can accomplish the task.

C- mlflow.shap

D- mlflow.log_figure

E- client.log_artifact

Answer:

C

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