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Question 1

Question Type: MultipleChoice

A data scientist has developed a scikit-learn model sklearn_model and they want to log the model using MLflow.

They write the following incomplete code block:

Which of the following lines of code can be used to fill in the blank so the code block can successfully complete the task?

Options:

A- mlflow.spark.track_model(sklearn_model, 'model')
B- mlflow.sklearn.log_model(sklearn_model, 'model')
C- mlflow.spark.log_model(sklearn_model, 'model')
D- mlflow.sklearn.load_model('model')
E- mlflow.sklearn.track_model(sklearn_model, 'model')

Answer:

A

Question 2

Question Type: MultipleChoice

A data scientist has computed updated feature values for all primary key values stored in the Feature Store table features. In addition, feature values for some new primary key values have also been computed. The updated feature values are stored in the DataFrame features_df. They want to replace all data in features with the newly computed data.

Which of the following code blocks can they use to perform this task using the Feature Store Client fs?

A)

B)

C)

D)

E)

Options:

A- Option A
B- Option B
C- Option C
D- Option D
E- Option E

Answer:

E

Question 3

Question Type: MultipleChoice

A data scientist is using MLflow to track their machine learning experiment. As a part of each MLflow run, they are performing hyperparameter tuning. The data scientist would like to have one parent run for the tuning process with a child run for each unique combination of hyperparameter values.

They are using the following code block:

The code block is not nesting the runs in MLflow as they expected.

Which of the following changes does the data scientist need to make to the above code block so that it successfully nests the child runs under the parent run in MLflow?

Options:

A- Indent the child run blocks within the parent run block
B- Add the nested=True argument to the parent run
C- Remove the nested=True argument from the child runs
D- Provide the same name to the run name parameter for all three run blocks

E- Add the nested=True argument to the parent run and remove the nested=True arguments from the child runs

Answer:

E

Question 4

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 5

Question Type: MultipleChoice

A data scientist has developed a model model and computed the RMSE of the model on the test set. They have assigned this value to the variable rmse. They now want to manually store the RMSE value with the MLflow run.

They write the following incomplete code block:

Which of the following lines of code can be used to fill in the blank so the code block can successfully complete the task?

Options:

A- log_artifact
B- log_model
C- log_metric
D- log_param
E- There is no way to store values like this.

Answer:

A

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