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Microsoft Designing and Implementing a Data Science Solution on Azure Sample Questions (Q290-Q295):

NEW QUESTION # 290

You are developing a machine learning solution by using the Azure Machine Learning designer.

You need to create a web service that applications can use to submit data feature values and retrieve a predicted label. Which three actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

ACTIONS

- Create and run a batch inference pipeline.
- Create and run a training pipeline.
- Deploy a service to an inference cluster.
- Create and run a real-time inference pipeline.

Answer area

Microsoft

Answer:

Explanation:

ACTIONS

- Create and run a batch inference pipeline.
- Create and run a training pipeline.
- Deploy a service to an inference cluster.
- Create and run a real-time inference pipeline.

Answer area

- Create and run a training pipeline.
- Deploy a service to an inference cluster.
- Create and run a real-time inference pipeline.

Microsoft

Explanation:

ACTIONS

- Create and run a batch inference pipeline.

Answer area

- Create and run a training pipeline.
- Deploy a service to an inference cluster.
- Create and run a real-time inference pipeline.

Microsoft

NEW QUESTION # 291

You need to build a feature extraction strategy for the local models.

How should you complete the code segment? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area



```
with C.layers.default_options(init=C.glorot_uniform(), activation=C.relu):  
h = features
```

```
h = C.layers.Convolution2D(num_filters=8...)(h)  
h = C.layers.MaxPooling(filter_shape=(3,3)...)(h)  
h = C.layers.Convolution2D(num_filters=16...)(h)  
h = C.layers.MaxPooling(filter_shape=(2,2)...)(h)
```

```
r = C.layers.Dense...
```

```
h = C.layers.MaxPooling(filter_shape=(3,3)...)(h)  
h = C.layers.MaxPooling(filter_shape=(2,2)...)(h)  
h = C.layers.Convolution2D(num_filters=8...)(h)  
h = C.layers.Convolution2D(num_filters=16...)(h)
```

```
h = C.layers.Convolution2D(num_filters=16...)(h)  
h = C.layers.Convolution2D(num_filters=8...)(h)  
h = C.layers.MaxPooling(filter_shape=(2,2)...)(h)  
h = C.layers.MaxPooling(filter_shape=(3,3)...)(h)
```

```
h = C.layers.MaxPooling(filter_shape=(3,3)...)(h)  
h = C.layers.MaxPooling(filter_shape=(2,2)...)(h)  
h = C.layers.Convolution2D(num_filters=8...)(h)  
h = C.layers.Convolution2D(num_filters=16...)(h)
```

Answer:

Explanation:

Answer Area



```
with C.layers.default_options(init=C.glorot_uniform(), activation=C.relu):  
h = features
```

```
h = C.layers.Convolution2D(num_filters=8...)(h)  
h = C.layers.MaxPooling(filter_shape=(3,3)...)(h)  
h = C.layers.Convolution2D(num_filters=16...)(h)  
h = C.layers.MaxPooling(filter_shape=(2,2)...)(h)
```

```
r = C.layers.Dense...
```

```
h = C.layers.MaxPooling(filter_shape=(3,3)...)(h)  
h = C.layers.MaxPooling(filter_shape=(2,2)...)(h)  
h = C.layers.Convolution2D(num_filters=8...)(h)  
h = C.layers.Convolution2D(num_filters=16...)(h)
```

```
h = C.layers.Convolution2D(num_filters=16...)(h)  
h = C.layers.Convolution2D(num_filters=8...)(h)  
h = C.layers.MaxPooling(filter_shape=(2,2)...)(h)  
h = C.layers.MaxPooling(filter_shape=(3,3)...)(h)
```

```
h = C.layers.MaxPooling(filter_shape=(3,3)...)(h)  
h = C.layers.MaxPooling(filter_shape=(2,2)...)(h)  
h = C.layers.Convolution2D(num_filters=8...)(h)  
h = C.layers.Convolution2D(num_filters=16...)(h)
```

Explanation

```
Answer Area

with C.layers.default_options(init=C.glorot_uniform(), activation=C.relu):
h = features
h = C.layers.MaxPooling(filter_shape=(3,3))(h)
h = C.layers.MaxPooling(filter_shape=(2,2))(h)
h = C.layers.Convolution2D(num_filters=16, filter_shape=(2,2))(h)
h = C.layers.MaxPooling(filter_shape=(2,2))(h)
r = C.layers.Dense...
```

NEW QUESTION # 292

You deploy a real-time inference service for a trained model.

The deployed model supports a business-critical application, and it is important to be able to monitor the data submitted to the web service and the predictions the data generates.

You need to implement a monitoring solution for the deployed model using minimal administrative effort.

What should you do?

- A. Enable Azure Application Insights for the service endpoint and view logged data in the Azure portal.
- B. Create an ML Flow tracking URI that references the endpoint, and view the data logged by ML Flow.
- C. View the log files generated by the experiment used to train the model.
- **D. View the explanations for the registered model in Azure ML studio.**

Answer: D

NEW QUESTION # 293

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You have a Python script named train.py in a local folder named scripts. The script trains a regression model by using scikit-learn. The script includes code to load a training data file which is also located in the scripts folder.

You must run the script as an Azure ML experiment on a compute cluster named aml-compute.

You need to configure the run to ensure that the environment includes the required packages for model training. You have instantiated a variable named aml-compute that references the target compute cluster.

Solution: Run the following code:

```
from azureml.train.dnn import TensorFlow
sklearn_estimator = TensorFlow(source_directory='./scripts',
                               compute_target=aml_compute,
                               entry_script='train.py')
```

Does the solution meet the goal?

- **A. No**
- B. Yes

Answer: A

Explanation:

Explanation

The scikit-learn estimator provides a simple way of launching a scikit-learn training job on a compute target. It is implemented through the SKLearn class, which can be used to support single-node CPU training.

Example:

```
from azureml.train.sklearn import SKLearn
}
```

```

estimator = SKLearn(source_directory=project_folder,
compute_target=compute_target,
entry_script='train_iris.py'
)

```

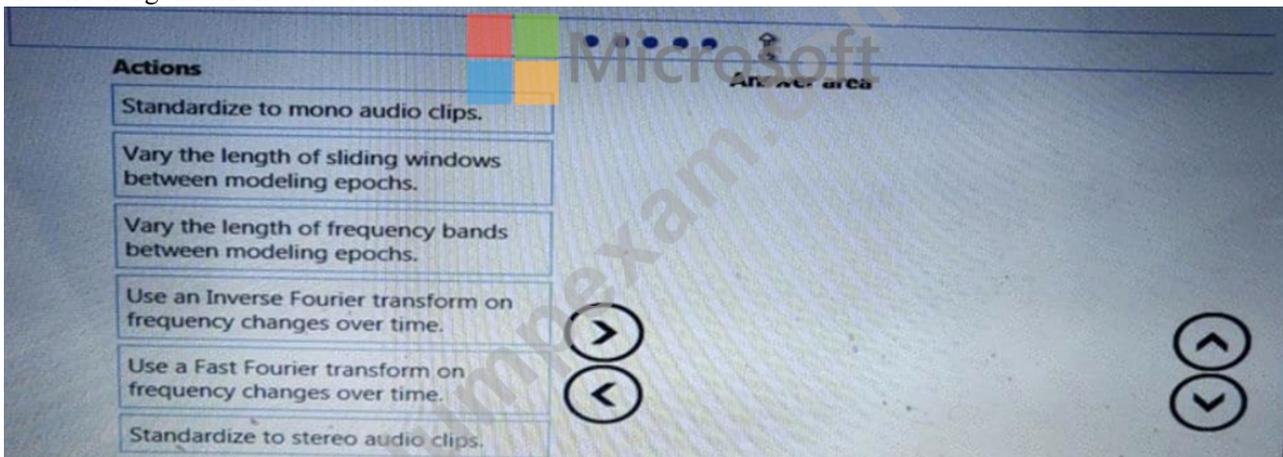
Reference:

<https://docs.microsoft.com/en-us/azure/machine-learning/how-to-train-scikit-learn>

NEW QUESTION # 294

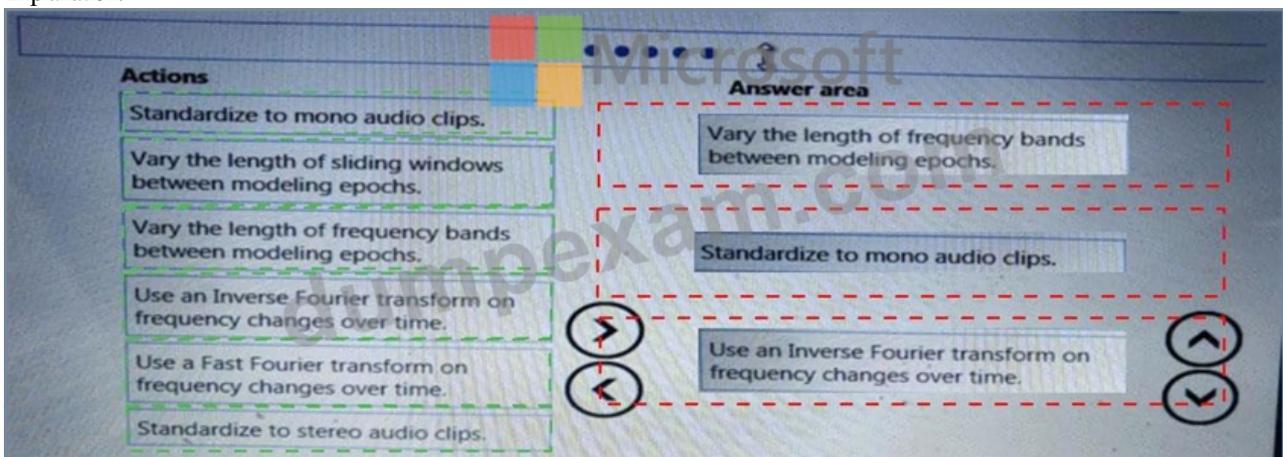
You need to define a process for penalty event detection.

Which three actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.



Answer:

Explanation:



NEW QUESTION # 295

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