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Microsoft Designing and Implementing a Data Science Solution on Azure Sample Questions (Q459-Q464):

NEW QUESTION # 459

You are implementing hyperparameter tuning for a model training from a notebook. The notebook is in an Azure Machine Learning workspace. You add code that imports all relevant Python libraries.

You must configure Bayesian sampling over the search space for the `num_hidden_layers` and `batch_size` hyperparameters.

You need to complete the following Python code to configure Bayesian sampling.

Which code segments should you use? To answer, select the appropriate options in the answer area NOTE: Each correct selection is worth one point.

```
param_sampling = BayesianParameterSampling( {
    "learning_rate": uniform(0.05, 0.1),
    "batch_size": loguniform ( range (16, 128, 16))
}
```

Answer:

Explanation:

Answer Area

```
param_sampling = BayesianParameterSampling( {
    "learning_rate": uniform(0.05, 0.1),
    "batch_size": loguniform ( range (16, 128, 16))
}
```

NEW QUESTION # 460

You manage an Azure AI Foundry project

You plan to create a search index by using the Azure AI Foundry SDK.

You need to configure the Content field as a prioritized field for semantic ranking. The field is already set to be searchable.

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

NOTE: Each correct selection is worth one point.

Build an index with the Azure AI Foundry SDK

```
name="default",
prioritized_fields=SemanticPrioritizedFields( title_field=[], keywords_fields=[],
content_fields=[
    SemanticField
    SearchField
    SimpleField
],
),
)
```

Answer:

Explanation:

Build an index with the Azure AI Foundry SDK

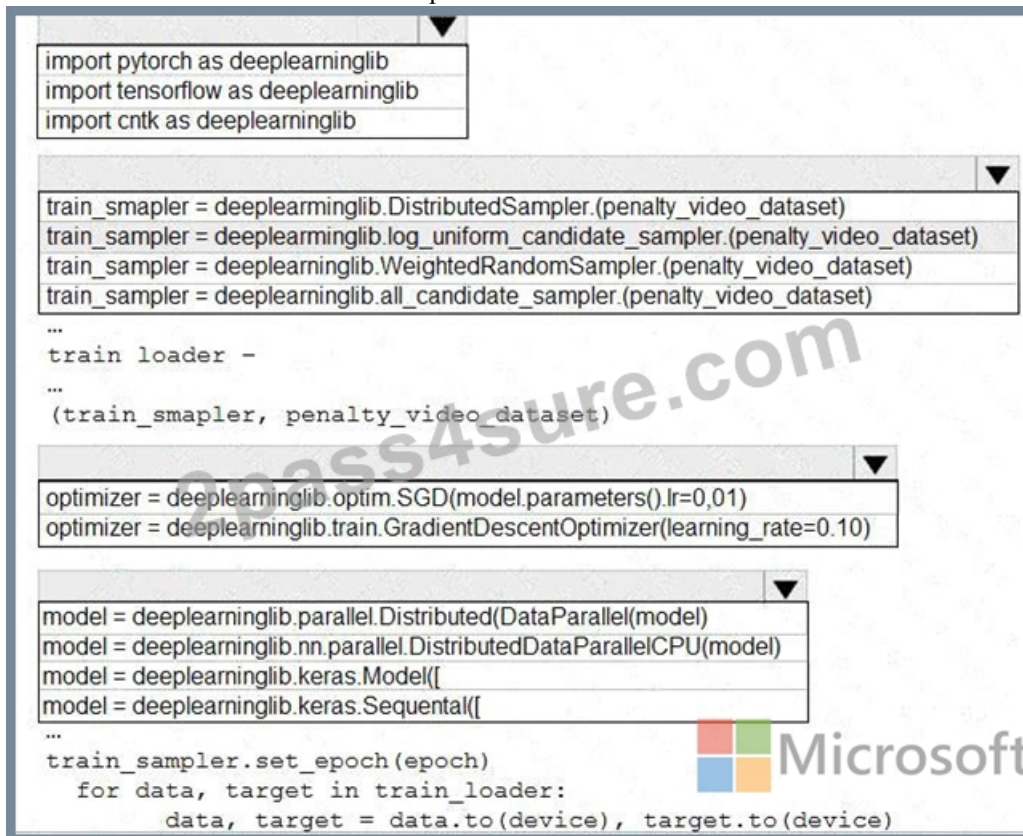
```
name="default",
prioritized_fields=SemanticPrioritizedFields( title_field=[], keywords_fields=[],
content_fields=[
    SemanticField
    SearchField
    SimpleField
],
),
)
```

Explanation:



NEW QUESTION # 461

You need to use the Python language to build a sampling strategy for the global penalty detection 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:

Explanation:

```
import torch as deeplearninglib
import tensorflow as deeplearninglib
import cntk as deeplearninglib
```

```
train_smampler = deeplearninglib.DistributedSampler(penalty_video_dataset)
train_sampler = deeplearninglib.log_uniform_candidate_sampler(penalty_video_dataset)
train_sampler = deeplearninglib.WeightedRandomSampler(penalty_video_dataset)
train_sampler = deeplearninglib.all_candidate_sampler(penalty_video_dataset)
```

```
...
train_loader =
...
(train_smampler, penalty_video_dataset)
```

```
optimizer = deeplearninglib.optim.SGD(model.parameters(), lr=0.01)
optimizer = deeplearninglib.train.GradientDescentOptimizer(learning_rate=0.10)
```

```
model = deeplearninglib.parallel.Distributed(DataParallel(model))
model = deeplearninglib.nn.parallel.DistributedDataParallelCPU(model)
model = deeplearninglib.keras.Model([
model = deeplearninglib.keras.Sequential([
```

```
...
train_sampler.set_epoch(epoch)
for data, target in train_loader:
    data, target = data.to(device), target.to(device)
```

Explanation:

```
import torch as deeplearninglib
import tensorflow as deeplearninglib
import cntk as deeplearninglib
```

```
train_smampler = deeplearninglib.DistributedSampler(penalty_video_dataset)
train_sampler = deeplearninglib.log_uniform_candidate_sampler(penalty_video_dataset)
train_sampler = deeplearninglib.WeightedRandomSampler(penalty_video_dataset)
train_sampler = deeplearninglib.all_candidate_sampler(penalty_video_dataset)
```

```
...
train_loader =
...
(train_smampler, penalty_video_dataset)
```

```
optimizer = deeplearninglib.optim.SGD(model.parameters(), lr=0.01)
optimizer = deeplearninglib.train.GradientDescentOptimizer(learning_rate=0.10)
```

```
model = deeplearninglib.parallel.Distributed(DataParallel(model))
model = deeplearninglib.nn.parallel.DistributedDataParallelCPU(model)
model = deeplearninglib.keras.Model([
model = deeplearninglib.keras.Sequential([
```

Box 1: import torch as deeplearninglib

Box 2: ..DistributedSampler(Sampler)..

DistributedSampler(Sampler):

Sampler that restricts data loading to a subset of the dataset.

It is especially useful in conjunction with class: `torch.nn.parallel.DistributedDataParallel`. In such case, each process can pass a DistributedSampler instance as a DataLoader sampler, and load a subset of the original dataset that is exclusive to it.

Scenario: Sampling must guarantee mutual and collective exclusivity between local and global segmentation models that share the same features.

Box 3: optimizer = deeplearninglib.train.GradientDescentOptimizer(learning_rate=0.10)

NEW QUESTION # 462

You use Azure Machine Learning to implement hyperparameter tuning with a Bandit early termination policy.

The policy uses a slack_factor set to 0.1, an evaluation interval set to 1, and an evaluation delay set to 0.

You need to evaluate the outcome of the early termination policy.

What should you evaluate? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

Scenario	Value
Percentage of worst performing runs to be terminated	91 percent
	1 percent
Run termination interval	91 percent
	99 percent
Run termination interval	Every interval when metrics are reported, starting at evaluation interval 5.
	Every interval when metrics are reported, starting at evaluation interval 5.
	Every 5th interval when metrics are reported.
	Every 6th interval when metrics are reported.

Answer:

Explanation:

Scenario	Value
Percentage of worst performing runs to be terminated	91 percent
	1 percent
Run termination interval	91 percent
	99 percent
Run termination interval	Every interval when metrics are reported, starting at evaluation interval 5.
	Every interval when metrics are reported, starting at evaluation interval 5.
	Every 5th interval when metrics are reported.
	Every 6th interval when metrics are reported.

NEW QUESTION # 463

You create a training pipeline using the Azure Machine Learning designer. You upload a CSV file that contains the data from which you want to train your model.

You need to use the designer to create a pipeline that includes steps to perform the following tasks:

Select the training features using the pandas filter method.

Train a model based on the naive_bayes.GaussianNB algorithm.

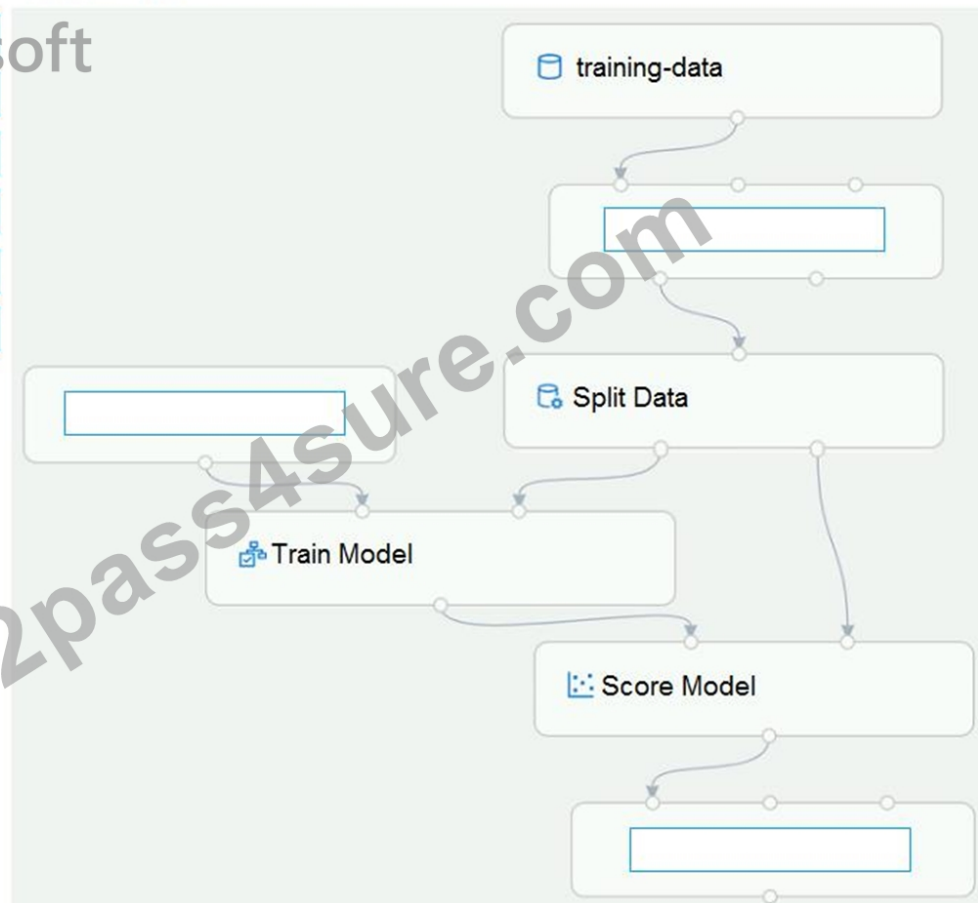
Return only the Scored Labels column by using the query SELECT [Scored Labels] FROM t1; Which modules should you use? To answer, drag the appropriate modules to the appropriate locations. Each module name may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

Modules

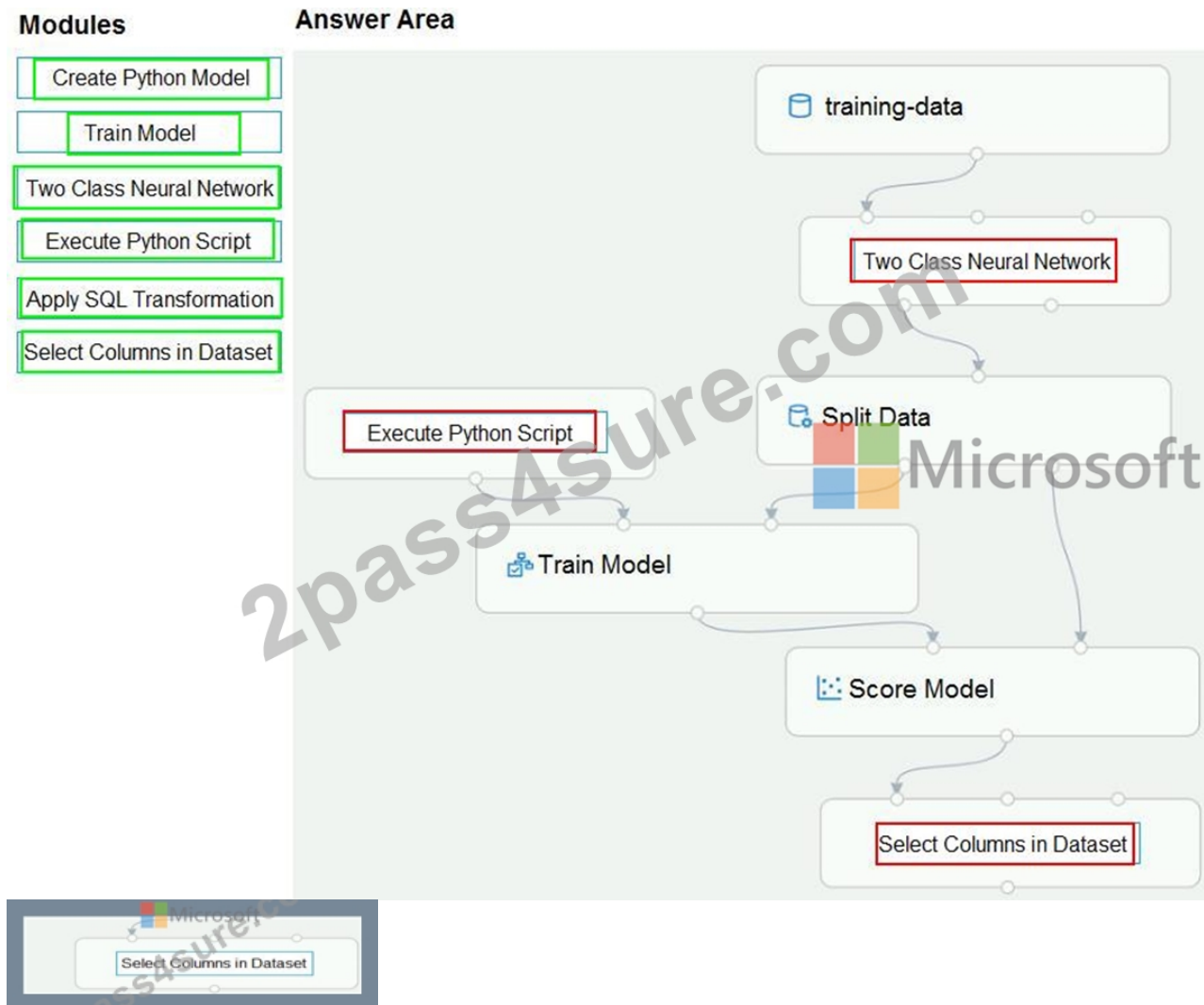
- Create Python Model
- Train Model
- Two Class Neural Network
- Execute Python Script
- Apply SQL Transformation
- Select Columns in Dataset

Answer Area



Answer:

Explanation:



NEW QUESTION # 464

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