

DP-100 Valid Exam Blueprint - DP-100 Test King

The image shows a screenshot of a 'DP-100 Practice Test' interface. On the left, there's a desk with a laptop displaying 'Explained in Detail'. The main area shows a code snippet for a machine learning pipeline. A red box highlights the feature separation code. Below the code, there are two radio button options: 'A. Yes' and 'B. No'.

DP-100

Practice Test

15 Questions

You are developing a ML pipeline using Python SDK, and you have to separate your data model as well as for testing the trained model. You got a code snippet from your less experienced colleague which is a great help, if it works. You have to check if it does the job. By its description, the script loads data from the default datastore and separates the 70% for training and the rest of them for testing, by using the scikit-learn package. In a reproducible way, you can use the following code snippet:

```
# Get the experiment run context
run = Run.get_context()

# Load data
print("Loading Data...")
diabetes_data = run.input_datasets['diabetes_train'].to_pandas_dataframe()

# Separate features and labels
X, y = diabetes_data[['Pregnancies', 'PlasmaGlucose',
                     'DiastolicBloodPressure', 'BMI', 'Age']].values,
        diabetes['Diabetic'].values

# Split data into training set and test set
X_train, X_test, y_train, y_test =
    train_test_split(X, y, test_size=0.30, random_state=0)
```

☐ A. Yes

☐ B. No

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The Microsoft DP-100 Exam is designed to test the candidate's understanding of key concepts such as data exploration and preparation, modeling, deployment, and maintenance of machine learning models. It requires a deep understanding of Azure data services, including Azure Machine Learning, Azure Databricks, and Azure HDInsight. Furthermore, candidates are expected to have a good understanding of programming languages such as Python and R.

>>> **DP-100 Valid Exam Blueprint** <<<

DP-100 Test King - New DP-100 Test Fee

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The Microsoft DP-100 exam consists of various topics that cover the entire data science process, from data collection and preparation to model training and deployment. Candidates will be required to demonstrate their ability to design and implement solutions that meet specific business requirements, as well as their ability to optimize and monitor those solutions for maximum efficiency. DP-100 Exam is intended for data scientists, data engineers, and machine learning engineers who have a good understanding of data science concepts and are familiar with Azure technologies.

Microsoft Designing and Implementing a Data Science Solution on Azure Sample Questions (Q301-Q306):

NEW QUESTION # 301

You create an Azure Machine Learning workspace. You are implementing hyperparameter tuning for a model training from a notebook.

You must configure a Bandit termination policy that provides the following outcome:

If the value of the primary metric of AUC is 0.8 at the point of evaluation intervals, any run with the primary metric value below 0.66 will be terminated.

You need to identify which Bandit termination policy configuration to use.

What should you identify?

- A. Set `slack_factor` to 0.1.
- B. Set `slack_amount` to 0.1.

- C. Set slack_amount to 0.2.
- D. Set slack_factor to 0.2.

Answer: D

Explanation:

<https://learn.microsoft.com/en-us/azure/machine-learning/how-to-tune-hyperparameters?view=azureml-api-2#bandit-policy>

NEW QUESTION # 302

You create a Python script named train.py and save it in a folder named scripts. The script uses the scikit-learn framework to train a machine learning model.

You must run the script as an Azure Machine Learning experiment on your local workstation.

You need to write Python code to initiate an experiment that runs the train.py script.

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



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```

from azureml.core import Experiment, ScriptRunConfig, Environment
from azureml.core.conda_dependencies import CondaDependencies
from azureml.core import Workspace

ws = Workspace.from_config()
py_sk = Environment('sklearn-training')
pkgs = CondaDependencies.create(pip_packages=['scikit-learn', 'azureml-defaults'])
py_sk.python.conda_dependencies = pkgs
script_config = ScriptRunConfig (
    = 'scripts',

    = 'train.py',

    =py_sk)

experiment = Experiment(workspace=ws, name='training-experiment')
run = experiment.submit(config=script_config)

```

script

source_directory

resume_from

arguments

script

arguments

environment

compute_target

arguments

resume_from

environment

compute_target

Answer:

Explanation:

Answer Area

```
from azureml.core import Experiment, ScriptRunConfig, Environment
from azureml.core.conda_dependencies import CondaDependencies
from azureml.core import Workspace

ws = Workspace.from_config()
py_sk = Environment('sklearn-training')
pkgs = CondaDependencies.create(pip_packages=['scikit-learn', 'azureml-defaults'])
py_sk.python.conda_dependencies = pkgs
script_config = ScriptRunConfig (
```

	= 'scripts',
script	
source directory	
resume from	
arguments	

	= 'train.py',
script	
arguments	
environment	
compute_target	

	=py_sk)
arguments	
resume from	
environment	
compute_target	

```
experiment = Experiment(workspace=ws, name='training-experiment')
run = experiment.submit(config=script_config)
```

Reference:

<https://docs.microsoft.com/en-us/python/api/azureml-core/azureml.core.scriptrunconfig>

NEW QUESTION # 303

A coworker registers a datastore in a Machine Learning services workspace by using the following code:

```
Datastore.register_azure_blob_container(workspace=ws,
datastore_name='demo_datastore',
container_name='demo_datacontainer',
account_name='demo_account',
account_key='0A0ABA-0A0A0BA-0A0A0BA0A0A0A',
create_if_not_exists=True)
```

You need to write code to access the datastore from a notebook.

Answer Area

```
import azureml.core
from azureml.core import Workspace, Datastore
ws = Workspace.from_config()

datastore = Workspace.get('demo_datastore', ws=ws, run=run, experiment=experiment, log=log)
```

Answer:

Explanation:

```
import azureml.core
from azureml.core import Workspace, Datastore
ws = Workspace.from_config()

datastore = Workspace.get('demo_datastore', ws=ws, run=run, experiment=experiment, log=log)
```

Reference:

<https://docs.microsoft.com/en-us/azure/machine-learning/how-to-access-data>

NEW QUESTION # 304

You are tuning a hyperparameter for an algorithm. The following table shows a data set with different hyperparameter, training error, and validation errors.

Hyperparameter (H)	Training error (TE)	Validation error (VE)
1	105	95
2	200	85
3	250	100
4	105	100
5	400	50

Use the drop-down menus to select the answer choice that answers each question based on the information presented in the graphic.

Question	Answer Choise
Which H value should you select based on the data?	1 2 3 4 5
What H value displays the poorest training result?	1 2 3 4 5

Answer:

Explanation:

Question



Microsoft

Answer Choise

Which H value should you select based on the data?

	▼
1	
2	
3	
4	
5	

What H value displays the poorest training result?

	▼
1	
2	
3	
4	
5	

Explanation:

Question

Answer Choise

Which H value should you select based on the data?

	▼
1	
2	
3	
4	
5	

What H value displays the poorest training result?

	▼
1	
2	
3	
4	
5	



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Box 1: 4

Choose the one which has lower training and validation error and also the closest match.

Minimize variance (difference between validation error and train error).

Box 2: 5

Minimize variance (difference between validation error and train error).

Reference:

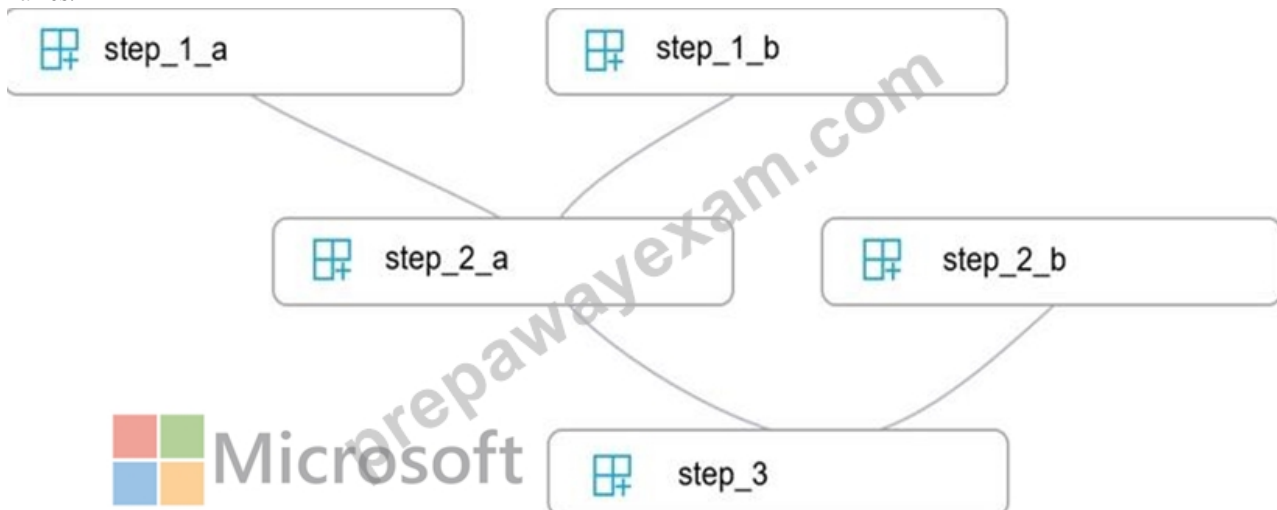
<https://medium.com/comet-ml/organizing-machine-learning-projects-project-management-guidelines-2d2b85651>

NEW QUESTION # 305

You write five Python scripts that must be processed in the order specified in Exhibit A - which allows the same modules to run in parallel, but will wait for modules with dependencies.

You must create an Azure Machine Learning pipeline using the Python SDK, because you want to script to create the pipeline to be tracked in your version control system. You have created five PythonScriptSteps and have named the variables to match the module

names.



You need to create the pipeline shown. Assume all relevant imports have been done.
Which Python code segment should you use?

- A. `p = Pipeline(ws, steps=[step_1_a, step_1_b, step_2_a, step_2_b, step_3])`
- B. `pipeline_steps = {
 "Pipeline": {
 "run": step_3,
 "run_after": [{
 {"run": step_2_a,
 "run_after": [{
 {"run": step_1_a,
 "run": step_1_b}]
 },
 {"run": step_2_b}]
 }
 }
}
p = Pipeline(ws, steps=pipeline_steps)`
- C. `step_2_a.run_after(step_1_b)
step_2_a.run_after(step_1_a)
step_3.run_after(step_2_b)
step_3.run_after(step_2_a)
p = Pipeline(ws, steps=[step_3])`
- D. `p = Pipeline(ws, steps=[step_1_a, step_1_b, step_2_a, step_2_b, step_3])`

- A. Option B
- **B. Option A**
- C. Option C
- D. Option D

Answer: B

Explanation:

Explanation

The steps parameter is an array of steps. To build pipelines that have multiple steps, place the steps in order in this array.

Reference:

<https://docs.microsoft.com/en-us/azure/machine-learning/how-to-use-parallel-run-step>

NEW QUESTION # 306

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