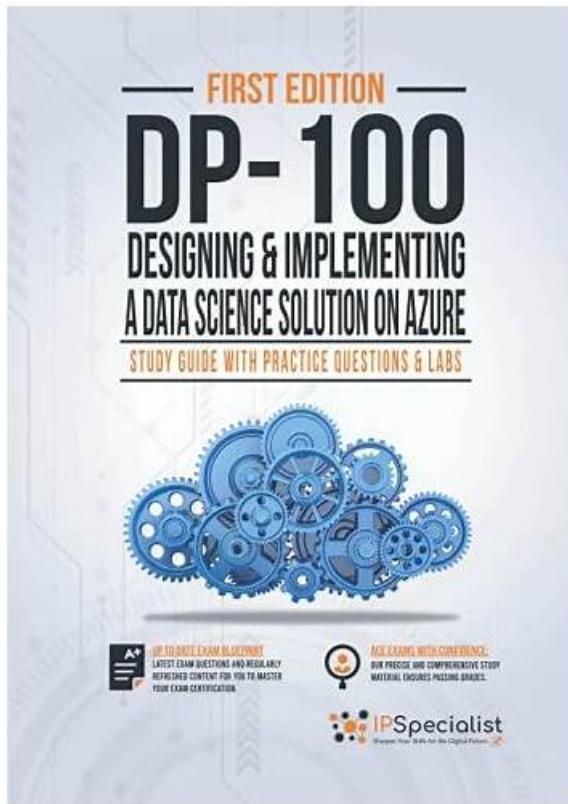


# DP-100 Practice Questions: Designing and Implementing a Data Science Solution on Azure & DP-100 Exam Dumps Files



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## **Microsoft Designing and Implementing a Data Science Solution on Azure Sample Questions (Q516-Q521):**

### **NEW QUESTION # 516**

You manage an Azure Machine Learning workspace.

You must define the execution environments for your jobs and encapsulate the dependencies for your code.

You need to configure the environment from a Docker build context.

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

NOTE: Each correct selection is worth one point.

### **Answer:**

Explanation:

### **NEW QUESTION # 517**

You create an experiment in Azure Machine Learning Studio. You add a training dataset that contains 10,000 rows. The first 9,000 rows represent class 0 (90 percent).

The remaining 1,000 rows represent class 1 (10 percent).

The training set is imbalanced between two classes. You must increase the number of training examples for class 1 to 4,000 by using 5 data rows. You add the Synthetic Minority Oversampling Technique (SMOTE) module to the experiment.

You need to configure the module.

Which values should you use? To answer, select the appropriate options in the dialog box in the answer area.

NOTE: Each correct selection is worth one point.

### **Answer:**

Explanation:

Explanation

Box 1: 300

You type 300 (%), the module triples the percentage of minority cases (3000) compared to the original dataset (1000).

Box 2: 5

We should use 5 data rows.

Use the Number of nearest neighbors option to determine the size of the feature space that the SMOTE algorithm uses when building new cases. A nearest neighbor is a row of data (a case) that is very similar to some target case. The distance between any two cases is measured by combining the weighted vectors of all features.

By increasing the number of nearest neighbors, you get features from more cases.

By keeping the number of nearest neighbors low, you use features that are more like those in the original sample.

References:

<https://docs.microsoft.com/en-us/azure/machine-learning/studio-module-reference/smote>

### **NEW QUESTION # 518**

You manage an Azure Machine learning workspace.

You build a custom model you must log Mlflow. The custom model includes the following:

\* The model is not natively supported by Mlflow.

\* The model cannot be serialized in Pickle format.

\* The model source code is complex.

\* The Python library for the model must be packaged with the model.

You need to create a custom model flavor to enable logging with ML flow.  
What should you use?

- A. model wrapper
- B. model loader
- C. custom signatures
- D. artifacts

**Answer: A**

#### **NEW QUESTION # 519**

You are building an intelligent solution using machine learning models.

The environment must support the following requirements:

Data scientists must build notebooks in a cloud environment

Data scientists must use automatic feature engineering and model building in machine learning pipelines.

Notebooks must be deployed to retrain using Spark instances with dynamic worker allocation.

Notebooks must be exportable to be version controlled locally.

You need to create the environment.

Which four 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:

Explanation

Step 1: Create an Azure HDInsight cluster to include the Apache Spark Mlib library Step 2: Install Microsoft Machine Learning for Apache Spark You install AzureML on your Azure HDInsight cluster.

Microsoft Machine Learning for Apache Spark (MMLSpark) provides a number of deep learning and data science tools for Apache Spark, including seamless integration of Spark Machine Learning pipelines with Microsoft Cognitive Toolkit (CNTK) and OpenCV, enabling you to quickly create powerful, highly-scalable predictive and analytical models for large image and text datasets.

Step 3: Create and execute the Zeppelin notebooks on the cluster

Step 4: When the cluster is ready, export Zeppelin notebooks to a local environment.

Notebooks must be exportable to be version controlled locally.

References:

<https://docs.microsoft.com/en-us/azure/hdinsight/spark/apache-spark-zeppelin-notebook>

<https://azuredmlbuild.blob.core.windows.net/pysparkapi/intro.html>

#### **NEW QUESTION # 520**

You are performing a classification task in Azure Machine Learning Studio.

You must prepare balanced testing and training samples based on a provided data set.

You need to split the data with a 0.75:0.25 ratio.

Which value should you use for each parameter? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

**Answer:**

Explanation:

Explanation

Box 1: Split rows

Use the Split Rows option if you just want to divide the data into two parts. You can specify the percentage of data to put in each split, but by default, the data is divided 50-50.

You can also randomize the selection of rows in each group, and use stratified sampling. In stratified sampling, you must select a single column of data for which you want values to be apportioned equally among the two result datasets.

Box 2: 0.75

If you specify a number as a percentage, or if you use a string that contains the "%" character, the value is interpreted as a percentage. All percentage values must be within the range (0, 100), not including the values 0 and 100.

Box 3: Yes

To ensure splits are balanced.

Box 4: No

If you use the option for a stratified split, the output datasets can be further divided by subgroups, by selecting a strata column. Reference:

<https://docs.microsoft.com/en-us/azure/machine-learning/studio-module-reference/split-data>

## NEW QUESTION # 521

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