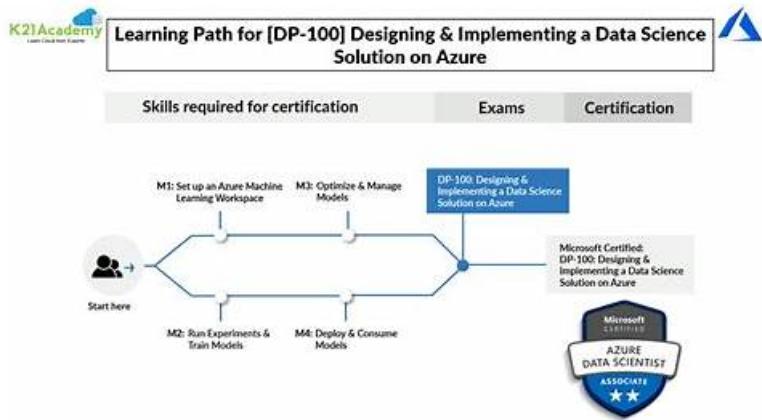


# Microsoft DP-100 Reliable Test Experience - DP-100 Latest Exam Labs



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To prepare for the DP-100 exam, candidates must have a solid understanding of data science and machine learning concepts, as well as experience working with Azure data services. They should be familiar with Azure Machine Learning Studio, Azure Databricks, Azure HDInsight, and other relevant Azure technologies. DP-100 Exam consists of multiple-choice questions and performance-based tasks that require candidates to demonstrate their ability to design and implement data science solutions in real-world scenarios. The DP-100 certification is a valuable credential for professionals seeking to advance their careers in data science and machine learning on the Azure platform.

>> Microsoft DP-100 Reliable Test Experience <<

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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.

## Microsoft Designing and Implementing a Data Science Solution on Azure Sample Questions (Q515-Q520):

### NEW QUESTION # 515

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 are using Azure Machine Learning to run an experiment that trains a classification model.

You want to use Hyperdrive to find parameters that optimize the AUC metric for the model. You configure a HyperDriveConfig for the experiment by running the following code:

You plan to use this configuration to run a script that trains a random forest model and then tests it with validation data. The label values for the validation data are stored in a variable named `y_test` variable, and the predicted probabilities from the model are stored in a variable named `y_predicted`.

You need to add logging to the script to allow Hyperdrive to optimize hyperparameters for the AUC metric.

Solution: Run the following code:

Does the solution meet the goal?

- A. Yes
- B. No

### Answer: B

Explanation:

Use a solution with `logging.info(message)` instead.

Note: Python printing/logging example:

`logging.info(message)`

Destination: Driver logs, Azure Machine Learning designer

Reference:

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

### NEW QUESTION # 516

You manage an Azure Machine Learning workspace. You use Azure Machine Learning Python SDK v2 to configure a trigger to schedule a pipeline job.

You need to create a time-based schedule with recurrence pattern.

Which two properties must you use to successfully configure the trigger? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. schedule
- B. start\_time
- C. interval
- D. time\_zone
- E. frequency

### Answer: C,E

### NEW QUESTION # 517

You are working on a classification task. You have a dataset indicating whether a student would like to play soccer and associated attributes. The dataset includes the following columns:

You need to classify variables by type.

Which variable should you add to each category? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

### Answer:

Explanation:

## References:

<https://www.edureka.co/blog/classification-algorithms/>

## NEW QUESTION # 518

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 train a classification model by using a logistic regression algorithm.

You must be able to explain the model's predictions by calculating the importance of each feature, both as an overall global relative importance value and as a measure of local importance for a specific set of predictions.

You need to create an explainer that you can use to retrieve the required global and local feature importance values.

Solution: Create a MimicExplainer.

Does the solution meet the goal?

- A. Yes
- B. No

## Answer: B

Explanation:

Instead use Permutation Feature Importance Explainer (PFI).

Note 1: Mimic explainer is based on the idea of training global surrogate models to mimic blackbox models. A global surrogate model is an intrinsically interpretable model that is trained to approximate the predictions of any black box model as accurately as possible. Data scientists can interpret the surrogate model to draw conclusions about the black box model.

Note 2: Permutation Feature Importance Explainer (PFI): Permutation Feature Importance is a technique used to explain classification and regression models. At a high level, the way it works is by randomly shuffling data one feature at a time for the entire dataset and calculating how much the performance metric of interest changes. The larger the change, the more important that feature is. PFI can explain the overall behavior of any underlying model but does not explain individual predictions.

Reference:

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

## NEW QUESTION # 519

You are using Azure Machine Learning to train machine learning models. You need a compute target on which to remotely run the training script. You run the following Python code:

□

## Answer:

Explanation:

□

Explanation:

□

Box 1: Yes

The compute is created within your workspace region as a resource that can be shared with other users.

Box 2: Yes

It is displayed as a compute cluster.

View compute targets

1. To see all compute targets for your workspace, use the following steps:
2. Navigate to Azure Machine Learning studio.
3. Under Manage, select Compute.
4. Select tabs at the top to show each type of compute target.

□

Box 3: Yes

min\_nodes is not specified, so it defaults to 0.

Reference:

[https://docs.microsoft.com/en-us/python/api/azureml-core/azureml.core.compute.amlcompute.amlcompute\\_provisioning](https://docs.microsoft.com/en-us/python/api/azureml-core/azureml.core.compute.amlcompute.amlcompute_provisioning)

<https://docs.microsoft.com/en-us/azure/machine-learning/how-to-create-attach-compute-studio>

## NEW QUESTION # 520

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