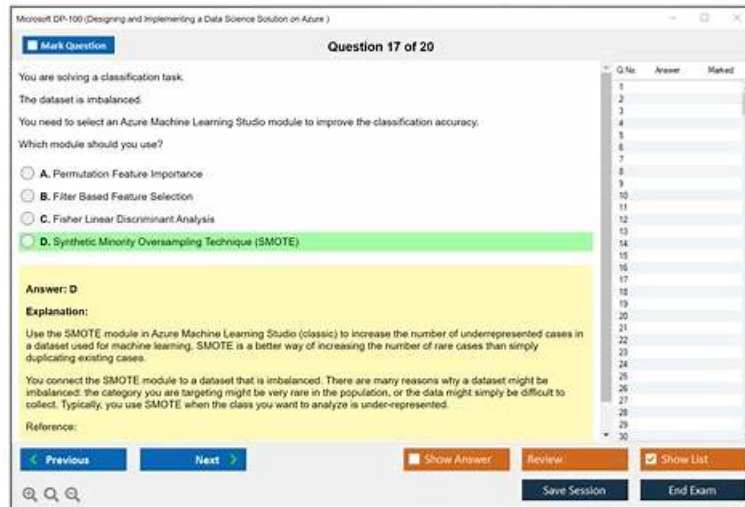


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## 2. Train Models & Run Experiments (25-30%):

- **Metrics generation from experiment runs:** The candidates must be able to use logs for troubleshooting errors in experiment runs, log metrics from experiment run, and view and retrieve experiment outputs.
- **Training scripts run within Azure ML workspaces:** The students should have the expertise in creating and running experiments utilizing Azure ML SDK as well configuring run settings for the scripts. This subject area also requires their skills in data consumption from datasets for an experiment using Azure ML SDK.
- **Models creation with Azure ML Designer:** This domain covers the examinees' skills in using custom code modules within the design and using designer modules for the definition of pipeline data flows. It also requires one's competence in ingesting data within designer pipelines and creating training pipelines utilizing ML Designer.
- **Model training process automation:** The individuals need the relevant skills in running pipelines, passing data within steps in pipelines, monitoring pipeline runs, and creating pipelines with the use of SDK.

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## Exam Questions for Microsoft DP-100 in PDF Format

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## Microsoft Designing and Implementing a Data Science Solution on Azure Sample Questions (Q55-Q60):

### NEW QUESTION # 55

You have an Azure Machine Learning workspace that contains a training cluster and an inference cluster.

You plan to create a classification model by using the Azure Machine Learning designer.

You need to ensure that client applications can submit data as HTTP requests and receive predictions as responses.

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                                                                                           | Answer area                                                  |
|---------------------------------------------------------------------------------------------------|--------------------------------------------------------------|
| Create a real-time inference pipeline and run the pipeline on the compute cluster.                | <div> <div></div> <div></div> <div></div> <div></div> </div> |
| Create a batch inference pipeline and run the pipeline on the compute cluster.                    |                                                              |
| Deploy a service to the compute cluster.                                                          |                                                              |
| Create a pipeline that trains a classification model and run the pipeline on the compute cluster. |                                                              |
| Deploy a service to the inference cluster.                                                        |                                                              |

**Answer:**

Explanation:

| Answer Area                                                                                       |
|---------------------------------------------------------------------------------------------------|
| Create a pipeline that trains a classification model and run the pipeline on the compute cluster. |
| Create a batch inference pipeline and run the pipeline on the compute cluster.                    |
| Deploy a service to the inference cluster.                                                        |

- 1 - Create a pipeline that trains a classification model and run the pipeline on the compute cluster.
- 2 - Create a batch inference pipeline and run the pipeline on the compute cluster.
- 3 - Deploy a service to the inference cluster.

## NEW QUESTION # 56

You are hired as a data scientist at a winery. The previous data scientist used Azure Machine Learning. You need to review the models and explain how each model makes decisions.

Which explainer modules should you use? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

| Model type                                                                                            | Explainer                                                                                   |
|-------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| A random forest model for predicting the alcohol content in wine given a set of covariates            | <div> <div></div> <div>Tabular</div> <div>HAN</div> <div>Text</div> <div>Image</div> </div> |
| A natural language processing model for analyzing field reports                                       | <div> <div></div> <div>Tree</div> <div>HAN</div> <div>Text</div> <div>Image</div> </div>    |
| An image classifier that determines the quality of the grape based upon its physical characteristics. | <div> <div></div> <div>Kernel</div> <div>HAN</div> <div>Text</div> <div>Image</div> </div>  |

**Answer:**

Explanation:

## Model type

## Explainer

A random forest model for predicting the alcohol content in wine given a set of covariates

Tabular

HAN

Text

Image

A natural language processing model for analyzing field reports

Tree

HAN

Text

Image

An image classifier that determines the quality of the grape based upon its physical characteristics.

Kernel

HAN

Text

Image



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### Explanation:

Meta explainers automatically select a suitable direct explainer and generate the best explanation info based on the given model and data sets. The meta explainers leverage all the libraries (SHAP, LIME, Mimic, etc.) that we have integrated or developed. The following are the meta explainers available in the SDK:

Tabular Explainer: Used with tabular datasets.

Text Explainer: Used with text datasets.

Image Explainer: Used with image datasets.

Box 1: Tabular

Box 2: Text

Box 3: Image

Reference:

<https://medium.com/microsoftazure/automated-and-interpretable-machine-learning-d07975741298>

### NEW QUESTION # 57

You need to configure the Feature Based Feature Selection module based on the experiment requirements and datasets.

How should you configure the module properties? To answer, select the appropriate options in the dialog box in the answer area.

NOTE: Each correct selection is worth one point.

**Filter Based Feature Selection**

Feature scoring method

Fisher Score  
Chi-squared  
Mutual information  
Counts

☒ Operate on feature columns only

Target column

MedianValue  
AvgRooms/nHouse

Launch column selector

Number of desired features

1

**Answer:**

**Explanation:**

**Filter Based Feature Selection**

Feature scoring method

Fisher Score  
Chi-squared  
**Mutual information**  
Counts

☒ Operate on feature columns only

Target column

**MedianValue**  
AvgRooms/nHouse

Launch column selector

Number of desired features

1

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**Explanation:**

Box 1: Mutual Information.

The mutual information score is particularly useful in feature selection because it maximizes the mutual information between the joint distribution and target variables in datasets with many dimensions.

Box 2: MedianValue

MedianValue is the feature column, it is the predictor of the dataset.

Scenario: The MedianValue and AvgRoomsInHouse columns both hold data in numeric format. You need to select a feature selection algorithm to analyze the relationship between the two columns in more detail.

References:

<https://docs.microsoft.com/en-us/azure/machine-learning/studio-module-reference/filter-based-feature-selection>

## NEW QUESTION # 58

You need to correct the model fit issue.

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**

Add the Ordinal Regression module.

Add the Two-Class Averaged Perception module.

Augment the data.

Add the Bayesian Linear Regression module.

Decrease the memory size for L-BFGS.

Add the Multiclass Decision Jungle module.

Configure the regularization weight.

**Answer Area**











**Answer:**

**Explanation:**

**Actions**

Add the Ordinal Regression module.

Add the Two-Class Averaged Perception module.

Augment the data.

Add the Bayesian Linear Regression module.

Decrease the memory size for L-BFGS.

Add the Multiclass Decision Jungle module.

Configure the regularization weight.

**Answer Area**

Augment the data.

Add the Bayesian Linear Regression module.

Configure the regularization weight.









**Explanation**



**Augment the data.**

**Add the Bayesian Linear Regression module.**



**Configure the regularization weight.**

Step 1: Augment the data

Scenario: Columns in each dataset contain missing and null values. The datasets also contain many outliers.

Step 2: Add the Bayesian Linear Regression module.

Scenario: You produce a regression model to predict property prices by using the Linear Regression and Bayesian Linear Regression modules.

Step 3: Configure the regularization weight.

Regularization typically is used to avoid overfitting. For example, in L2 regularization weight, type the value to use as the weight for L2 regularization. We recommend that you use a non-zero value to avoid overfitting.

Scenario:

Model fit: The model shows signs of overfitting. You need to produce a more refined regression model that reduces the overfitting.

### NEW QUESTION # 59

You design a project for interactive data mangling with Apache Spark in an Azure Machine Learning workspace. The data pipeline must provide the following solution:

- \* Ingest and process a vast amount of data from various sources and linked services, such as databases and APIs
  - \* Visualize the results in Microsoft Power BI.
  - \* Include a possibility to quickly identify and address issues by observing only a small amount of data using the fewest resources.
- You need to select a computation option for project activities.

**Answer:**

**Explanation:**

**Explanation:**

## NEW QUESTION # 60

.....

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