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Microsoft DP-100 Certification Exam is designed to test the skills and knowledge required to design and implement a data science solution on Azure. DP-100 exam is aimed at professionals who are involved in building and implementing data science solutions, including data scientists, data engineers, and machine learning engineers. Passing the exam demonstrates that the candidate has the skills and knowledge required to design and implement a data science solution on Azure.

# Microsoft Designing and Implementing a Data Science Solution on Azure

## Sample Questions (Q300-Q305):

### NEW QUESTION # 300

You have an Azure Machine Learning workspace.

You plan to use the workspace to set up automated machine learning training for an image classification model.

You need to choose the primary metric to optimize the model training.

Which primary metric should you choose?

- A. spearman\_correlation
- B. mean\_absolute\_error
- C. root\_mean\_squared\_log\_error
- D. accuracy

**Answer: D**

### NEW QUESTION # 301

You have a dataset created for multiclass classification tasks that contains a normalized numerical feature set with 10,000 data points and 150 features.

You use 75 percent of the data points for training and 25 percent for testing. You are using the scikit-learn machine learning library in Python. You use X to denote the feature set and Y to denote class labels.

You create the following Python data frames:

You need to apply the Principal Component Analysis (PCA) method to reduce the dimensionality of the feature set to 10 features in both training and testing sets.

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.

```
from sklearn.decomposition import PCA
pca = PCA()
X_train = pca.fit_transform(X_train)
X_test = pca.
```

**Answer:**

Explanation:

```
from sklearn.decomposition import PCA
pca = PCA()
X_train = pca.fit_transform(X_train)
X_test = pca.
```

Reference:

<https://scikit-learn.org/stable/modules/generated/sklearn.decomposition.PCA.html>

**NEW QUESTION # 302**

You configure a Deep Learning Virtual Machine for Windows.



You need to recommend tools and frameworks to perform the following:

Build deep neural network (DNN) models

Perform interactive data exploration and visualization


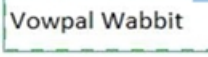
Which tools and frameworks should you recommend? To answer, drag the appropriate tools to the correct tasks. Each tool may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

Tools	Answer Area
 Vowpal Wabbit	<b>Task</b>
 PowerBI Desktop	Build DNN models
Azure Data Factory	Enable interactive data exploration and visualization
Microsoft Cognitive Toolkit	<b>Tool</b>
	Tool
	Tool

**Answer:**

Explanation:

Tools	Answer Area
 Vowpal Wabbit	<b>Task</b>
 PowerBI Desktop	Build DNN models
Azure Data Factory	Enable interactive data exploration and visualization
Microsoft Cognitive Toolkit	<b>Tool</b>
	Vowpal Wabbit
	PowerBI Desktop

Explanation

Task	Tool
Build DNN models	Vowpal Wabbit
Enable interactive data exploration and visualization	PowerBI Desktop

Box 1: Vowpal Wabbit

Use the Train Vowpal Wabbit Version 8 module in Azure Machine Learning Studio (classic), to create a machine learning model by using Vowpal Wabbit.

Box 2: PowerBI Desktop

Power BI Desktop is a powerful visual data exploration and interactive reporting tool BI is a name given to a modern approach to business decision making in which users are empowered to find, explore, and share insights from data across the enterprise.

References:

<https://docs.microsoft.com/en-us/azure/machine-learning/studio-module-reference/train-vowpal-wabbit-version-8>

<https://docs.microsoft.com/en-us/azure/architecture/data-guide/scenarios/interactive-data-exploration>

### NEW QUESTION # 303

You need to implement a new cost factor scenario for the ad response models as illustrated in the performance curve exhibit. Which technique should you use?

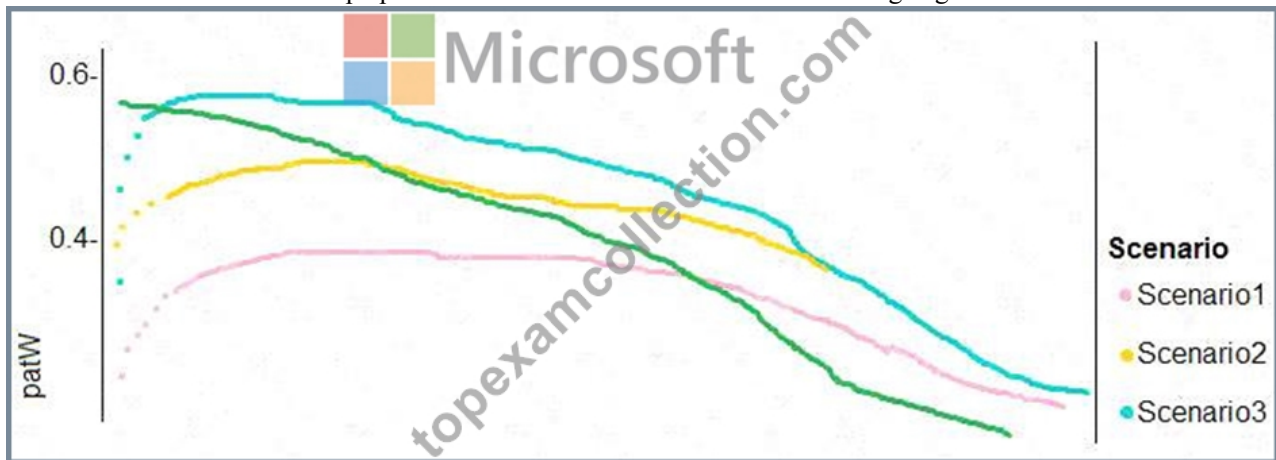
- A. Set the threshold to 0.75 and retrain if weighted Kappa deviates +/- 5% from 0.15.
- B. Set the threshold to 0.2 and retrain if weighted Kappa deviates +/- 5% from 0.6.
- C. Set the threshold to 0.5 and retrain if weighted Kappa deviates +/- 5% from 0.45.
- D. Set the threshold to 0.05 and retrain if weighted Kappa deviates +/- 5% from 0.5.

**Answer: C**

Explanation:

Scenario:

Performance curves of current and proposed cost factor scenarios are shown in the following diagram:



The ad propensity model uses a cut threshold is 0.45 and retrain occur if weighted Kappa deviated from 0.1 +/- 5%.

Topic 1, Case Study 1

Overview

You are a data scientist in a company that provides data science for professional sporting events. Models will be global and local market data to meet the following business goals:

- \*Understand sentiment of mobile device users at sporting events based on audio from crowd reactions.
- \*Access a user 's tendency to respond to an advertisement.
- \*Customize styles of ads served on mobile devices.
- \*Use video to detect penalty events.

Current environment

Requirements

\* Media used for penalty event detection will be provided by consumer devices. Media may include images and videos captured during the sporting event and snared using social media. The images and videos will have varying sizes and formats.

\* The data available for model building comprises of seven years of sporting event media. The sporting event media includes: recorded videos, transcripts of radio commentary, and logs from related social media feeds captured during the sporting events.

\*Crowd sentiment will include audio recordings submitted by event attendees in both mono and stereo Formats.

Advertisements

- \* Ad response models must be trained at the beginning of each event and applied during the sporting event.
- \* Market segmentation models must optimize for similar ad response history.
- \* Sampling must guarantee mutual and collective exclusivity local and global segmentation models that share the same features.
- \* Local market segmentation models will be applied before determining a user's propensity to respond to an advertisement.
- \* Data scientists must be able to detect model degradation and decay.
- \* Ad response models must support non linear boundaries features.
- \* The ad propensity model uses a cut threshold is 0.45 and retrain occur if weighted Kappa deviates from 0.1 +/- 5%.

+/- 5%.

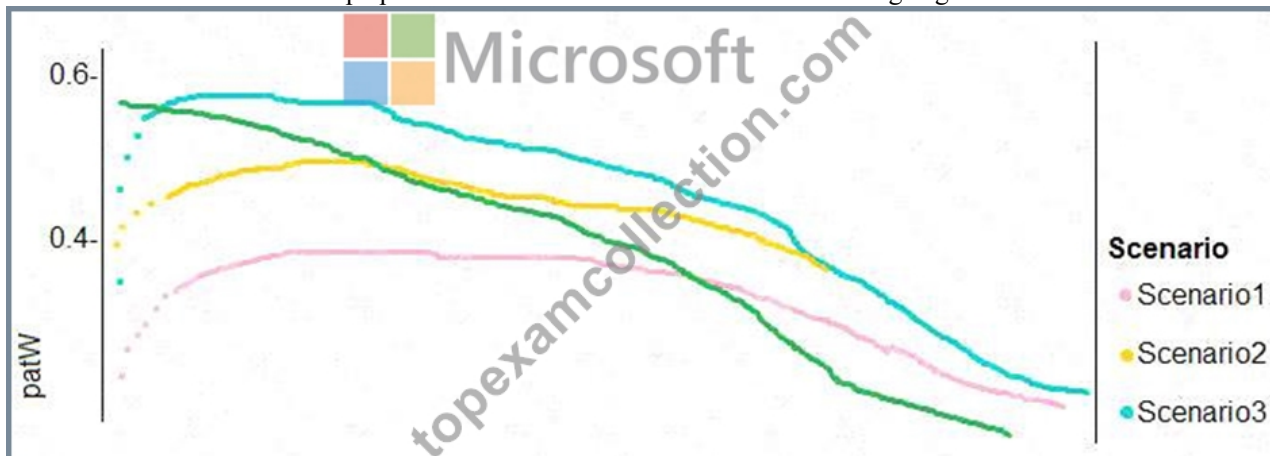
\* The ad propensity model uses cost factors shown in the following diagram:

		Actual	
		1	0
Predicted	0	1	2
	1	2	1

The ad propensity model uses proposed cost factors shown in the following diagram:

		Actual	
		1	0
Predicted	0	1	5
	1	5	1

Performance curves of current and proposed cost factor scenarios are shown in the following diagram:



### Penalty detection and sentiment

#### Findings

- \*Data scientists must build an intelligent solution by using multiple machine learning models for penalty event detection.
- \*Data scientists must build notebooks in a local environment using automatic feature engineering and model building in machine learning pipelines.
- \*Notebooks must be deployed to retrain by using Spark instances with dynamic worker allocation
- \*Notebooks must execute with the same code on new Spark instances to recode only the source of the data.
- \*Global penalty detection models must be trained by using dynamic runtime graph computation during training.
- \*Local penalty detection models must be written by using BrainScript.
- \* Experiments for local crowd sentiment models must combine local penalty detection data.
- \* Crowd sentiment models must identify known sounds such as cheers and known catch phrases. Individual crowd sentiment models will detect similar sounds.
- \* All shared features for local models are continuous variables.
- \* Shared features must use double precision. Subsequent layers must have aggregate running mean and standard deviation metrics Available.

#### segments

During the initial weeks in production, the following was observed:

- \*Ad response rates declined.
  - \*Drops were not consistent across ad styles.
  - \*The distribution of features across training and production data are not consistent.
- Analysis shows that of the 100 numeric features on user location and behavior, the 47 features that come from location sources are

being used as raw features. A suggested experiment to remedy the bias and variance issue is to engineer 10 linearly uncorrected features.

Penalty detection and sentiment

\*Initial data discovery shows a wide range of densities of target states in training data used for crowd sentiment models.

\*All penalty detection models show inference phases using a Stochastic Gradient Descent (SGD) are running too slow.

\*Audio samples show that the length of a catch phrase varies between 25%-47%, depending on region.

\*The performance of the global penalty detection models show lower variance but higher bias when comparing training and validation sets. Before implementing any feature changes, you must confirm the bias and variance using all training and validation cases.

### NEW QUESTION # 304

You download a .csv file from a notebook in an Azure Machine Learning workspace to a data/sample.csv folder on a compute instance. The file contains 10,000 records. You must generate the summary statistics for the data in the file. The statistics must include the following for each numerical column:

\* number of non-empty values

\* average value

\* standard deviation

\* minimum and maximum values

\* 25th, 50th, and 75th percentiles

You need to complete the Python code that will generate the summary statistics.

Which code segments should you use? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area



```
import: CSV
import: CSV
import: numpy
import: pandas

datasample = lib.read_csv(data/sample.csv)
datasample.describe()
datasample.describe()
datasample.query()
datasample.rank()
```

Answer:

Explanation:

Answer Area



```
import: CSV
import: CSV
import: numpy
import: pandas

datasample = lib.read_csv(data/sample.csv)
datasample.describe()
datasample.describe()
datasample.query()
datasample.rank()
```

Explanation:

Answer Area

```
import csv as lib
datasample = lib.read_csv(data/sample.csv)
datasample.describe()
```



NEW QUESTION # 305

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