

## AI-900 Dumps

### Microsoft Azure AI Fundamentals (beta)

<https://www.certleader.com/AI-900-dumps.html>



#### NEW QUESTION 1

- (Exam Topic 1)

A company employs a team of customer service agents to provide telephone and email support to customers. The company develops a webchat bot to provide automated answers to common customer queries.

Which business benefit should the company expect as a result of creating the webchat bot solution?

- A. increased sales
- B. a reduced workload for the customer service agents
- C. improved product reliability

**Answer: B**

#### NEW QUESTION 2

- (Exam Topic 1)

For a machine learning progress, how should you split data for training and evaluation?

- A. Use features for training and labels for evaluation.
- B. Randomly split the data into rows for training and rows for evaluation.
- C. Use labels for training and features for evaluation.
- D. Randomly split the data into columns for training and columns for evaluation.

**Answer: D**

#### Explanation:

In Azure Machine Learning, the percentage split is the available technique to split the data. In this technique, random data of a given percentage will be split to train and test data.

Reference:

<https://www.sqlshack.com/prediction-in-azure-machine-learning/>

#### NEW QUESTION 3

- (Exam Topic 1)

You run a charity event that involves posting photos of people wearing sunglasses on Twitter. You need to ensure that you only retweet photos that meet the following requirements: Include one or more faces.

Contain at least one person wearing sunglasses. What should you use to analyze the images?

- A. the Verify operation in the Face service
- B. the Detect operation in the Face service
- C. the Describe Image operation in the Computer Vision service
- D. the Analyze Image operation in the Computer Vision service

**Answer: B**

#### Explanation:

Reference:

<https://docs.microsoft.com/en-us/azure/cognitive-services/face/overview>

#### NEW QUESTION 4

- (Exam Topic 1)

You build a machine learning model by using the automated machine learning user interface (UI). You need to ensure that the model meets the Microsoft transparency principle for responsible AI. What should you do?

- A. Set Validation type to Auto.
- B. Enable Explain best model.
- C. Set Primary metric to accuracy.
- D. Set Max concurrent iterations to 0.

**Answer: B**

#### Explanation:

Model Explain Ability.

Most businesses run on trust and being able to open the ML "black box" helps build transparency and trust. In heavily regulated industries like healthcare and banking, it is critical to comply with regulations and best practices. One key aspect of this is understanding the relationship between input variables (features) and model output. Knowing both the magnitude and direction of the impact each feature (feature importance) has on the predicted value helps better understand and explain the model. With model explain ability, we enable you to understand feature importance as part of automated ML runs.

Reference:

<https://azure.microsoft.com/en-us/blog/new-automated-machine-learning-capabilities-in-azure-machine-learning>

#### NEW QUESTION 5

- (Exam Topic 1)

To complete the sentence, select the appropriate option in the answer area.

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Reliability and safety: To build trust, it's critical that AI systems operate reliably, safely, and consistently under normal circumstances and in unexpected conditions. These systems should be able to operate as they were originally designed, respond safely to unanticipated conditions, and resist harmful manipulation.

Reference:

<https://docs.microsoft.com/en-us/learn/modules/responsible-ai-principles/4-guiding-principles>

**NEW QUESTION 6**

- (Exam Topic 1)

For each of the following statements, select Yes if the statement is true. Otherwise, select No.

NOTE: Each correct selection is worth one point.

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Box 1: No

Box 2: Yes

Box 3: Yes

Anomaly detection encompasses many important tasks in machine learning: Identifying transactions that are potentially fraudulent.

Learning patterns that indicate that a network intrusion has occurred. Finding abnormal clusters of patients.

Checking values entered into a system. Reference:

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

**NEW QUESTION 7**

- (Exam Topic 1)

You are developing a model to predict events by using classification.

You have a confusion matrix for the model scored on test data as shown in the following exhibit.

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

NOTE: Each correct selection is worth one point.

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Box 1: 11

TP = True Positive.

The class labels in the training set can take on only two possible values, which we usually refer to as positive or negative. The positive and negative instances that a classifier predicts correctly are called true positives (TP) and true negatives (TN), respectively. Similarly, the incorrectly classified instances are called false positives (FP) and false negatives (FN).

Box 2: 1,033

FN = False Negative Reference:

<https://docs.microsoft.com/en-us/azure/machine-learning/studio/evaluate-model-performance>

#### **NEW QUESTION 8**

- (Exam Topic 2)

Which metric can you use to evaluate a classification model?

- A. true positive rate
- B. mean absolute error (MAE)
- C. coefficient of determination (R2)
- D. root mean squared error (RMSE)

**Answer:** A

**Explanation:**

What does a good model look like?

An ROC curve that approaches the top left corner with 100% true positive rate and 0% false positive rate will be the best model. A random model would display as a flat line from the bottom left to the top right corner. Worse than random would dip below the  $y=x$  line.

Reference:

<https://docs.microsoft.com/en-us/azure/machine-learning/how-to-understand-automated-ml#classification>

#### **NEW QUESTION 9**

- (Exam Topic 2)

To complete the sentence, select the appropriate option in the answer area.

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

In machine learning, if you have labeled data, that means your data is marked up, or annotated, to show the target, which is the answer you want your machine learning model to predict.

In general, data labeling can refer to tasks that include data tagging, annotation, classification, moderation, transcription, or processing.

Reference:

<https://www.cloudfactory.com/data-labeling-guide>

**NEW QUESTION 10**

- (Exam Topic 2)

You use Azure Machine Learning designer to publish an inference pipeline.

Which two parameters should you use to consume the pipeline? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. the model name
- B. the training endpoint
- C. the authentication key
- D. the REST endpoint

**Answer:** AD

**Explanation:**

A: The trained model is stored as a Dataset module in the module palette. You can find it under My Datasets. Azure Machine Learning designer lets you visually connect datasets and modules on an interactive canvas to create machine learning models.

D: You can consume a published pipeline in the Published pipelines page. Select a published pipeline and find the REST endpoint of it.

Reference:

<https://docs.microsoft.com/en-us/azure/machine-learning/how-to-run-batch-predictions-designer> <https://docs.microsoft.com/en-us/azure/machine-learning/concept-designer>

**NEW QUESTION 10**

- (Exam Topic 2)

You need to predict the income range of a given customer by using the following dataset.

Which two fields should you use as features? Each correct answer presents a complete solution. NOTE: Each correct selection is worth one point.

- A. Education Level
- B. Last Name
- C. Age
- D. Income Range
- E. First Name

**Answer:** AC

**Explanation:**

First Name, Last Name, Age and Education Level are features. Income range is a label (what you want to predict). First Name and Last Name are irrelevant in that they have no bearing on income. Age and Education level are the features you should use.

**NEW QUESTION 14**

- (Exam Topic 2)

To complete the sentence, select the appropriate option in the answer area.

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

In the most basic sense, regression refers to prediction of a numeric target.

Example: Regression Model: A Boosted Decision Tree algorithm was used to create and train the model for predicting the repayment rate.

Reference:

<https://gallery.azure.ai/Experiment/Student-Loan-Repayment-Rate-Prediction>

**NEW QUESTION 18**

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