Your grade: 100%

Your latest: **100%** • Your highest: **100%** • To pass you need at least 70%. We keep your highest score.

Next item →

1. Which library is used for machine learning?   1 / 1 point

   ○ Pandas

   ○ Matplotlib

   ○ NumPy

   ● Scikit-learn

   ✓ **Correct**
   Correct. For machine learning, the Scikit-learn library contains tools for statistical modeling, including regression, classification, clustering, and so on.

2. What is the main purpose of an Application Programming Interface (API)?   1 / 1 point

   ○ Design user interfaces for applications

   ● Allow communication between software components

   ○ Create graphical representations of data

   ○ Facilitate communication between hardware components

   ✓ **Correct**
   Correct. An API allows communication between software components.

3. In a REST API architecture, what does the client typically receive from the web service after sending a request?   1 / 1 point

   ○ Binary data

   ○ XML document

   ○ HTML file

   ● JSON file

   ✓ **Correct**
   Correct. In a REST API, the client usually receives a JavaScript Object Notation (JSON) file as a response from the web service after sending a request.

4. What term is used to describe a structured collection of data?   1 / 1 point

   ○ Data Store

   ○ Data Format

   ○ Data Grid

   ● Data Set

   ✓ **Correct**
   Correct. A data set is a structured collection of data.

5. What type of resources are available for developers on the Data Asset eXchange (DAX) platform?   1 / 1 point

   ○ Only raw data files without any associated documentation

   ○ Only pre-trained machine learning models

   ○ Only proprietary data sets with restricted access

   ● Curated collections of open data sets along with tutorial notebooks

   ✓ **Correct**
   Correct. The Data Asset eXchange (DAX) platform provides curated collections of open data sets and tutorial notebooks.

6. What is the primary task of model training in machine learning?   1 / 1 point

   ● Identifying patterns in the data

   ○ Evaluating the model

   ○ Preparing the data

   ○ Making predictions

   ✓ **Correct**
   Correct. The primary task of model training in machine learning is to identify patterns in the data that can be used to make predictions or decisions. During training, the model learns from the input data and adjusts its parameters to minimize the difference between its predictions and the actual outcomes.

7. Which type of machine learning model is primarily used to predict a numeric value?   1 / 1 point

   ● Regression

   ○ Clustering

   ○ Classification

   ○ Reinforcement

   ✓ **Correct**

8. Which of the following statements are true regarding deep learning models based on the information provided in the video?

1 / 1 point

○ Deep learning models require small data sets for training.

◉ Deep learning models emulate how the human brain solves problems.

○ Deep learning models do not require specialized hardware for training.

○ Deep learning models are only used for natural language processing tasks.

⊘ **Correct**
Correct. Deep learning is a specialized type of machine learning. It refers to a general set of models and techniques that loosely emulate how the human brain solves various problems.

9. Which of the following domains are covered by models available on the Model Asset eXchange?

1 / 1 point

○ Text classification and natural language processing only

○ Only object detection

◉ Object detection, image classification, audio processing, and more

○ Only image classification

⊘ **Correct**
Correct. MAX provides models for various domains covering many applications, including object detection, image classification, audio processing, and more.

10. What tool is used to edit front-end languages like HTML, JavaScript, and CSS in the context of exploring machine learning models?

1 / 1 point

○ IBM Cloud

◉ CodePen

○ Red Hat OpenShift

○ GitHub

⊘ **Correct**
Correct. CodePen is a tool used to edit front-end languages like HTML, JavaScript, and CSS in the context of exploring machine learning models.