

✔ Congratulations! You passed!

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1. Which library is used for machine learning?

1 / 1 point

- ☐ Matplotlib
- ☒ Scikit-learn
- ☐ NumPy
- ☐ Pandas

✔ 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

- ☐ Facilitate communication between hardware components
- ☒ Allow communication between software components
- ☐ Create graphical representations of data
- ☐ Design user interfaces for applications

✔ 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

- ☐ XML document
- ☐ Binary data
- ☐ 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 Grid
- ☐ Data Store
- ☒ Data Set
- ☐ Data Format

✔ 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 proprietary data sets with restricted access
- ☐ Only pre-trained machine learning models
- ☒ Curated collections of open data sets along with tutorial notebooks
- ☐ Only raw data files without any associated documentation

✔ 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
- ☐ Making predictions
- ☐ Preparing the data

✔ 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

- ☐ Clustering
- ☐ Reinforcement
- ☐ Classification
- ☒ Regression

✔ Correct

Correct. The regression models are used to predict numeric values.

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 are only used for natural language processing tasks.
- ☐ 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.

✔ 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

- ☐ Only image classification
- ☐ Text classification and natural language processing only
- ☐ Only object detection
- ☒ Object detection, image classification, audio processing, and more

✔ 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
- ☐ Red Hat OpenShift
- ☐ GitHub
- ☒ CodePen

✔ 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.