

## ML quiz

### 1. What is Machine Learning?

C. A method of teaching computers to learn from data

### 2. Which of the following is NOT a type of Machine Learning?

D. Manual Learning

### 3. What is the main goal of Supervised Learning?

C. To predict an output based on labeled input-output pairs

### 4. Which of these is an example of Supervised Learning?

B. Predicting house prices based on historical data

### 5. In Unsupervised Learning, what type of data is used?

C. Data with no labels

### 6. What is the purpose of a "train-test split" in machine learning?

B. To divide the dataset for testing and training a model separately

### 7. Which of the following libraries is commonly used in Python for machine learning?

D. All of the above (NumPy, TensorFlow, Pandas)

### 8. What is a feature in machine learning?

B. An input variable used by the model to make predictions

### 9. What is a "label" in supervised learning?

B. The output the model is trying to predict

**10. Which of the following is an example of a classification problem?**

C. Identifying whether an email is spam or not

**11. Which machine learning algorithm is used for regression problems?**

D. Linear Regression

**12. What is "gradient descent" in machine learning?**

B. An optimization algorithm to minimize the loss function

**13. What is the "training set" in machine learning?**

C. A set of data used to teach the model

**14. Which of the following is NOT a common step in a machine learning workflow?**

C. Hardware assembly

**15. Which of the following is a loss function used in regression problems?**

A. Mean Squared Error (MSE)

**16. Which machine learning library is written in Python?**

D. All of the above (Scikit-learn, TensorFlow, PyTorch)