

# Machine Learning Practice Test Questions and Answers

**1. Which of the following is a supervised learning algorithm?**

- A) K-means clustering
- B) Linear regression
- C) Principal Component Analysis (PCA)
- D) DBSCAN

**2. What is overfitting in machine learning?**

- A) When a model performs well on training data but poorly on test data
- B) When a model performs poorly on both training and test data
- C) When a model has too few parameters
- D) When training takes too long

**3. Which activation function is most commonly used in hidden layers of neural networks?**

- A) Sigmoid
- B) Tanh
- C) ReLU (Rectified Linear Unit)
- D) Linear

**4. What is the purpose of cross-validation in machine learning?**

- A) To speed up training
- B) To assess model performance and prevent overfitting
- C) To reduce the size of the dataset
- D) To increase model complexity

Answers: 1-B 2-A 3-C 4-B

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