



Which of the following is a technique to prevent overfitting in neural networks?



23%



- ☐ Gradient Clipping
- ☐ Using a larger dataset
- ☐ Increasing the number of layers
- ☒ Dropout✓
- ☐ Learning Rate Adjustment

The correct answer is: Dropout

Question 5

1.00/1.00

Which of the following is NOT a type of machine learning?

- ☐ Unsupervised Learning
- ☐ Supervised Learning
- ☐ Reinforcement Learning
- ☒ Recursive Learning✓
- ☐ Semi-supervised Learning

The correct answer is: Recursive Learning

Question 6

1.00/1.00

What is the main difference between regression and classification?

- ☐ Regression is unsupervised
- ☐ Regression uses labeled data, Classification doesn't
- ☐ Both are the same
- ☒ Regression predicts a continuous output, Classification predicts a discrete label✓
- ☐ Classification is unsupervised

The correct answer is: Regression predicts a continuous output, Classification predicts a discrete label

Question 7

1.00/1.00

What is the primary goal of machine learning?

- ☒ To allow computers to learn from data✓
- ☐ To program explicit rules for a task
- ☐ None of the given options
- ☐ To increase computational speed
- ☐ To design new algorithms

The correct answer is: To allow computers to learn from data



Question 8

1.00/1.00

Which of the following is NOT a common machine learning algorithm?

- ☐ Decision Trees
- ☐ K-Means Clustering
- ☐ Neural Networks
- ☒ Quantum Entanglement✓
- ☐ Support Vector Machines

The correct answer is: Quantum Entanglement

Question 9

1.00/1.00

Which component of a neural network is responsible for combining inputs and passing them to the next layer?

- ☐ Weight
- ☐ Bias
- ☐ Activation Function
- ☐ Layer
- ☒ Neuron (or Node)✓

The correct answer is: Neuron (or Node)

Question 10

1.00/1.00

What is the primary purpose of a loss function in training neural networks?

- ☒ To quantify the difference between predicted and actual values✓
- ☐ To activate neurons
- ☐ To define the network's architecture
- ☐ To initialize weights
- ☐ To speed up training

The correct answer is: To quantify the difference between predicted and actual values