

Quiz review

Started on	Wednesday, 13 March 2024, 3:18 PM
State	Finished
Completed on	Wednesday, 13 March 2024, 3:21 PM
Time taken	3 mins 9 secs
Marks	10.00/10.00
Grade	100.00 out of 100.00

Question 1

Correct
Mark 1.00 out of 1.00

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

- 47562
- ☒ Quantum Entanglement
 - ☐ K-Means Clustering
 - ☐ Neural Networks
 - ☐ Decision Trees
 - ☐ Support Vector Machines

The correct answer is: Quantum Entanglement

Question 2

Correct
Mark 1.00 out of 1.00

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

- 47562
- ☐ Learning Rate Adjustment
 - ☐ Increasing the number of layers
 - ☐ Gradient Clipping
 - ☒ Dropout
 - ☐ Using a larger dataset

The correct answer is: Dropout



Question 3

Correct

Mark 1.00 out of 1.00

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

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

The correct answer is: Recursive Learning

Question 4

Correct

Mark 1.00 out of 1.00

47562

Which application of ML is used to group similar items?

- ☒ Clustering ✓
- ☐ Ranking
- ☐ Regression
- ☐ Recommendation
- ☐ Classification

The correct answer is: Clustering

47562

Question 5

Correct

Mark 1.00 out of 1.00

What is the main difference between regression and classification?

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

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

47562

Question 6

Correct

Mark 1.00 out of 1.00

In the context of neural networks, what does the term "backpropagation" refer to?

- ☐ The process of adding more layers
- ☐ The activation of neurons in the hidden layer
- ☐ The initial random assignment of weights
- ☒ The method of adjusting weights based on the error ✓
- ☐ The forward flow of data

The correct answer is: The method of adjusting weights based on the error

Question 7

Correct

Mark 1.00 out of 1.00

47562

What is the primary goal of machine learning?

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

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

47562

Question 8

Correct

Mark 1.00 out of 1.00

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

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

47562

The correct answer is: Neuron (or Node)

Question 9

Correct

Mark 1.00 out of 1.00

Which activation function outputs a value between 0 and 1?

- ☐ Hyperbolic Tangent (tanh)
- ☐ Linear
- ☒ Sigmoid ✓
- ☐ Leaky ReLU
- ☐ Rectified Linear Unit (ReLU)

The correct answer is: Sigmoid

Question 10

Correct

Mark 1.00 out of 1.00

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

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

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

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