

MIS 548 Module 2 Knowledge Check 2; Machine-Learning Techniques for Predictive Analytics - Answers



Neural networks represent a brain metaphor for information processing. These models are biologically inspired rather than a replica of how the brain functions.

A



True

B



False

Explanation

Answer A is correct.

Neural networks represent a brain metaphor for information processing. These models are biologically inspired rather than a replica of how the brain functions. Neural network computing is the key component of any data science and business analytics toolkit.



Fill in the blank with the appropriate term related to neural computing.

Correct Answer

Your Answer

Neural computing refers to a methodology for machine learning.

Note : Your response need not be case-sensitive.

Explanation

Neural computing refers to a **pattern-recognition** methodology for machine learning.



Fill in the blank with the appropriate term related to the biological neural network.

Correct Answer

Your Answer

The human brain is composed of special cells called .

Note : Your response need not be case-sensitive.

Explanation

The human brain is composed of special cells called **neurons**.



The structure of a Hopfield neural network cannot be replicated on an electronic circuit board.

A



True

B



False

Explanation

Answer B is correct.

The structure of a Hopfield neural network can be replicated on an electronic circuit board. A Hopfield neural network is represented as a single large layer of neurons with total interconnectivity.



Fill in the blank with the appropriate term related to artificial neural networks.

Correct Answer

Your Answer

The middle layer of the ANN structure is called the layer.

Note : Your response need not be case-sensitive.

Explanation

The middle layer of the artificial neural networks (ANN) structure is called the **hidden** layer.



Fill in the blank with the appropriate term related to neural network architecture.

Correct Answer

Your Answer

Kohonen's feature map provides a way to represent multidimensional data in much lower-dimensional spaces.

Note : Your response need not be case-sensitive.

Explanation

Kohonen's **self-organizing** feature map provides a way to represent multidimensional data in much lower-dimensional spaces.

