MIS 548 Module 1 Knowledge Check 1; Artificial Intelligence Concepts, Drivers, Major Technologies, and Busi - Answers

Fill in the blank with the appropriate term related to artificial intelligence.

Correct Answer | Your Answer

The representati learning technique is a type of machine learning that focuses on learning and discovering features by the system in addition to discovering the mapping from those features to the output.

Note : Your response need not be case-sensitive.

Explanation

The **representation** learning technique is a type of machine learning that focuses on learning and discovering features by the system in addition to discovering the mapping from those features to the output.

Which of the following elements of an artificial neural network (ANN) displays the relationship between the internal activation level and the output?

A ○ Summation function

B ○ Transfer function

C ○ Connection weights

D ○ Processing element

Explanation

Answer B is correct.

The transfer function displays the relationship between the internal activation level and the output. The relationship can either be linear or nonlinear.

A neuron is a processing unit that performs a set of predefined mathematical operations on the numerical values coming from the input variables or from the other neuron outputs to create and push out its outputs.

A ○ True

B ○ False

Explanation

Answer A is correct.

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

Correct Answer | Your Answer

A summation func is used to compute the weighted sums of all input elements entering each processing element.

Note : Your response need not be case-sensitive.

Explanation

A **summation function** is used to compute the weighted sums of all input elements entering each processing element.

Which of the following steps is **not** a part of the backpropagation learning algorithm?

A ○ Initialize weights with random values and set other parameters.

B ○ Compute the weights.

C ○ Read in the input vector and the desired output.

D ○ Compute the actual output.

E ○ Compute the error.

Explanation

Answer B is correct.