README.md 2024-04-20

SimpleArtificialNeuron - Source Code

This folder contains the source code for the SimpleArtificialNeuron component, which implements a basic artificial neuron, a fundamental building block of artificial neural networks.

Package Structure

The source code is organized into the components.neuron package which contains the core interfaces and classes for the SimpleArtificialNeuron component.

Key Files

- **SimpleArtificialNeuron.java:** The main interface that defines the functionality of the neuron, including methods for setting weights and bias, activating the neuron, and applying the activation function.
- **SimpleArtificialNeuronKernel.java:** The kernel interface that defines the minimal set of methods required for the neuron's basic operations.
- **SimpleArtificialNeuronSecondary.java:** The abstract class that implements the secondary methods of the neuron, building upon the kernel methods.
- **SimpleArtificialNeuron1.java:** A concrete implementation of the **SimpleArtificialNeuron** interface, providing a specific representation and implementation details.

Usage Example

See the SimpleArtificialNeuronDemo.java file in this folder for an example of how to use the SimpleArtificialNeuron component.

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