10 TYPES OF ARTIFICIAL NEURAL NETWORKS

1 Feedforward Neural Networks (FNNs)

The simplest type of ANN, where connections between the nodes do not form a cycle. This network moves information forward from input to output layers, possibly through multiple hidden layers.

3 Recurrent Neural Networks (RNNs)

Networks with loops allowing information to be stored within the network, which makes them ideal for sequential data such as time series, speech, text, and financial data.

5 Gated Recurrent Units (GRUs)

This network moves information forward from input to output layers, possibly through multiple hidden layers.

7 Generative Adversarial Networks (GANs)

Consist of two networks, a generator and a discriminator, that are trained simultaneously. GANs are used in unsupervised learning tasks like generating realistic images and videos.

9 Self-Organizing Maps (SOMs)

Unsupervised learning networks used for dimensionality reduction, mainly in feature detection and visualization of high-dimensional data.

8 Radial Basis Function (RBF) Networks

Utilize radial basis functions as activation functions. They are used in function approximation, time series prediction, and control systems.

10 Modular Neural Networks

Composed of a series of different networks working independently and contributing towards the output. Used in complex problems where the task can be divided into smaller tasks.

2 Convolutional Neural Networks (CNNs)

Designed for processing data that come in the form of multiple arrays, such as images. CNNs are widely used in image and video recognition, image classification and medical image analysis.

4 Long Short-Term Memory Networks (LSTMs)

A kind of RNN capable of learning long-term dependencies. Useful for tasks that require remembering information for long periods, such as in language modeling and translation.

6 Autoencoders

Used for unsupervised learning, particularly in dimensionality reduction and feature learning.

Chapter 7 Artificial Neural Networks And Their Applications

Rachel Sandford

Chapter 7 Artificial Neural Networks And Their Applications:

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