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Artificial neural networks (ANN) or connectionist systems are computing systems vaguely inspired by the biological neural networks that constitute animal brains. The neural network itself is not an algorithm, but rather a framework for many different machine learning algorithms to work together and process complex data inputs. Such systems "learn" to perform tasks by considering examples ...

Artificial neural network - Wikipedia

In deep learning, a convolutional neural network (CNN, or ConvNet) is a class of deep neural networks, most commonly applied to analyzing visual imagery.. CNNs use a variation of multilayer perceptrons designed to require minimal preprocessing. They are also known as shift invariant or space invariant artificial neural networks (SIANN), based on their shared-weights architecture and ...

Convolutional neural network - Wikipedia

American Journal of Neural Networks and Applications (AJNNA) as a miscellany of relevant scientific articles on the results of research carried out in laboratories in different countries, including the theory of neural networks and the practical implementation of drafts in different directions of science and technology. The magazine serves the purpose of bringing together researchers in the ...

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Since the proposal of a fast learning algorithm for deep belief networks in 2006, the deep learning techniques have drawn ever-increasing research interests because of their inherent capability of overcoming the drawback of traditional algorithms dependent on hand-designed features.

A survey of deep neural network architectures and their

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A MATLAB based Face Recognition System using Image

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Convolutional Neural Networks are considered the State-of-the-Art in computer vision related Machine Learning tasks. Soham Chatterjee highlights the limitations of CNNs and discusses alternate models that closely mirror the way the human brain work. He uses Professor Geoffrey Hinton's paper, Dynamic Routing Between Capsules, to establish certain points.

Capsule Networks and the Limitations of CNNs - Saama

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Speech Recognition: Technology & Patent Landscape

The What the Hell is it Actually Called Blue Box. The cerebrum is the whole big top/outside part of the brain but it also technically includes some of the internal parts too.. Cortex means "bark" in Latin and is the word used for the outer layer of many organs, not just the brain.The outside of the cerebellum is the cerebellar cortex. And the outside of the cerebrum is the cerebral cortex.

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