

# Deep Belief Nets In C And Cuda C Volume 1 Restricted Boltzmann Machines And Supervised Feedforward Networks

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## Deep Belief Nets In C

A typical deep belief net can learn to recognize complex patterns by optimizing millions of parameters, yet this model can still be resistant to overfitting. This book presents the essential building blocks of the most common forms of deep belief nets.

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Deep belief nets are one of the most exciting recent developments in artificial intelligence. The structure of these elegant models is much closer to that of human brains than traditional neural networks; they have a thought process that is capable of learning abstract concepts built from simpler primitives.

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Deep Belief Nets in C++ and CUDA C: Volume 2 also covers several algorithms for preprocessing time series and image data. These algorithms focus on the creation of complex-domain predictors that are suitable for input to a complex-domain autoencoder.

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## **Deep Belief Nets in C++ and CUDA C: Volume 3 ...**

In machine learning, a deep belief network (DBN) is a generative graphical model, or alternatively a class of deep neural network, composed of multiple layers of latent variables ("hidden units"), with connections between the layers but not between units within each layer.. When trained on a set of examples without supervision, a DBN can learn to probabilistically reconstruct its inputs.

## **Deep belief network - Wikipedia**

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