

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

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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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At each step Deep Belief Nets in C++ and CUDA C: Volume 3 presents intuitive motivation, a summary of the most important equations relevant to the topic, and concludes with highly commented code for threaded computation on modern CPUs as well as massive parallel processing on computers with CUDA-capable video display cards. Source code for all routines presented in the book, and the executable CONVNET program which implements these algorithms, are available for free download.

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### **A Fast Learning Algorithm for Deep Belief Nets**

In machine learning, a deep belief network is a generative graphical model, or alternatively a class of deep neural network, composed of multiple layers of latent variables, 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. The layers then act as feature detectors. After this learning step, a DBN can be further trained with supervision to perform classifi

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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.

### **Bing: Deep Belief Nets In C**

This repository accompanies Deep Belief Nets in C++ and CUDA C: Volume 3 by Timothy Masters (Apress, 2018). Download the files as a zip using the green button, or clone the repository to your machine using Git. Releases. Release v1.0 corresponds to the code in the published book, without corrections or updates. Contributions

### **Deep belief network - Wikipedia**

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