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Training deep neural networks can be a challenging task, especially for very deep models. A major part of this difficulty is due to the instability of the gradients computed via backpropagation.

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Neural Networks: Tricks of the Trade Review

— Page 437, Neural Networks: Tricks of the Trade, Second Edition, 2012. It's also long, divided into six main sections: Deep Learning Innovations. Including greedy layer-wise pretraining, denoising autoencoders, and online learning. Gradients. Including mini-batch gradient descent and automatic differentiation. Hyperparameters.

Stochastic Gradient Descent Tricks - Microsoft Research

The first chapter of Neural Networks, Tricks of the Trade strongly advocates the stochastic back-

propagation method to train neural networks. This is in fact an instance of a more general technique called stochastic gradient descent. This chapter provides background material, explains why SGD is a good learning algorithm when the training set is large, and [...]

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world's most prominent neural network researchers.

Pdf Neural Networks: Tricks Of The Trade: Second Edition 2012

This tip highlights the importance of data preparation prior to training a neural network model. The authors point out that neural networks often learn faster when the examples in the training dataset sum to zero. This can be achieved by subtracting the mean value from each input variable, called centering.

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Neural Networks: Tricks of the Trade: Tricks of the Trade (Lecture Notes in Computer Science/Theoretical Computer Science and General Issues) (Lecture Notes in Computer Science (7700)) This specific ISBN edition is currently not available. The second edition of the book adds more tricks, arising from fourteen years of work by some of the world's most prominent researchers.

8 Tricks for Configuring Backpropagation to Train Better ...

Neural network models are trained using stochastic gradient descent and model weights are updated using the backpropagation algorithm. The optimization solved by training a neural network model is very challenging and although these algorithms are widely used because they perform so

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well in practice, there are no guarantees that they will converge to a good model in a timely manner.

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