

Hands On Deep Learning Algorithms With Python Master Deep Learning Algorithms With Extensive Math By Implementing Them Using Tensorflow English Edition By Sudharsan Ravichandiran

Understand basic to advanced deep learning algorithms, the mathematical principles behind them, and their practical applications. Key Features Get up-to-speed with building your own neural networks from scratch Gain insights into the mathematical principles behind deep learning algorithms Implement popular deep learning algorithms such as CNNs, RNNs, and more using TensorFlow

Book Description Deep learning is one of the most popular domains in the AI space, allowing you to develop multi-layered models of varying complexities. This book introduces you to popular deep learning algorithms—from basic to advanced—and shows you how to implement them from scratch using TensorFlow. Throughout the book, you will gain insights into each algorithm, the mathematical principles behind it, and how to implement it in the best possible manner. The book starts by explaining how you can build your own neural networks, followed by introducing you to TensorFlow, the powerful Python-based library for machine learning and deep learning. Moving on, you will get up to speed with gradient descent variants, such as NAG, AMSGrad, AdaDelta, Adam, and Nadam. The book will then provide you with insights into RNNs and LSTM and how to generate song lyrics with RNN. Next, you will master the math for convolutional and capsule networks, widely used for image recognition tasks. Then you learn how machines understand the semantics of words and documents using CBOW, skip-gram, and PV-DM. Afterward, you will explore various GANs, including InfoGAN and LSGAN, and autoencoders, such as contractive autoencoders and VAE. By the end of this book, you will be equipped with all the skills you need to implement deep learning in your own projects.

What you will learn Implement basic-to-advanced deep learning algorithms Master the mathematics behind deep learning

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algorithms Become familiar with gradient descent and its variants, such as AMSGrad, AdaDelta, Adam, and Nadam Implement recurrent networks, such as RNN, LSTM, GRU, and seq2seq models Understand how machines interpret images using CNN and capsule networks Implement different types of generative adversarial network, such as CGAN, CycleGAN, and StackGAN Explore various types of autoencoder, such as Sparse autoencoders, DAE, CAE, and VAE Who this book is for If you are a machine learning engineer, data scientist, AI developer, or simply want to focus on neural networks and deep learning, this book is for you. Those who are completely new to deep learning, but have some experience in machine learning and Python programming, will also find the book very helpful. Table of Contents Introduction to Deep Learning Getting to know Tensorflow Gradient Descent and its variants Generating song lyrics using RNN Improvements to the RNN Demystifying Convolutional networks Representation learning using word embeddings Generative adversarial networks More About GANs Autoencoders Few shot learnings. hands on deep learning algorithms with python github. hands on deep learning algorithms with python free books. hands on deep learning algorithms with python master deep. hands on deep learning algorithms with python. sudharsan13296 hands on deep learning algorithms with python. machine learning a z hands on python amp r in data science. hands on deep learning algorithms with python. hands on deep learning algorithms with python. hands on deep learning algorithms with python. hands on deep learning algorithms with python master deep. hands on deep learning algorithms with python pdf pdf. hands on deep learning algorithms with python ai gradients. deep learning algorithms you should know about. machine learning with python machine learning tutorial python machine learning simplilearn. machine learning a z hands on python amp r in data science. deep learning a z hands on artificial neural networks. hands on deep learning algorithms with python sudharsan. top tutorials to learn deep learning with python quick. deep learning a z hands on artificial neural networks. introduction to deep learning hands on deep learning. hands on deep learning algorithms with python gfxtra. 2020 hands on python deep learning udemy free download. deep algorithms. hands on genetic algorithms with python applying genetic. hands on deep learning

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