
Deep Learning Step By Step With Python A Very Gentle Introduction To Deep Neural Networks For Practical Data Science

R Deep Learning Essentials

Machine Learning with Python

Build Deeper

Getting started with Deep Learning for Natural Language Processing

Python Machine Learning

Better Deep Learning

Machine Learning

Introduction to Deep Learning Using R

Machine Learning

Deep Learning With Python

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Do you have a clear understanding of the different types of machine learning algorithms? Do you know what a neural network is, and how you can build it? If you have read the second book in the series, the answer to both the questions is yes. If you want to gather more information about machine learning, deep learning and neural networks, you have come to the right place. Over the

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who is intrigued by how algorithms arrive at predictions but has no previous knowledge of the field. Software developers and engineers with a strong programming background but seeking to break into the field of machine learning. Seasoned professionals in the field of artificial intelligence and deep learning who desire a bird's eye view of current techniques and approaches. What's Inside This Book? Introduction What is Artificial Intelligence, Machine Learning and Deep Learning? Mathematical Foundations of Deep Learning Understanding Machine Learning Models Evaluation of Machine Learning Models: Overfitting, Underfitting, Bias Variance Tradeoff Fully Connected Neural Networks Convolutional Neural Networks Recurrent Neural Networks Generative

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are clearly explained. The book also
points out several good locations on the
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information. I was extremely happy with
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Machine Learning Peter Bradley

Understand deep learning, the nuances
of its different models, and where these
models can be applied. The abundance
of data and demand for superior
products/services have driven the
development of advanced computer
science techniques, among them image
and speech recognition. Introduction to
Deep Learning Using R provides a
theoretical and practical understanding
of the models that perform these tasks
by building upon the fundamentals of
data science through machine learning
and deep learning. This step-by-step
guide will help you understand the
disciplines so that you can apply the
methodology in a variety of contexts. All
examples are taught in the R statistical
language, allowing students and
professionals to implement these

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(GANs), transfer learning, and large-scale deep learning in the cloud. In the concluding chapters, you will learn about the theoretical concepts of deep learning projects, such as model optimization, overfitting, and data augmentation, together with other advanced topics. By the end of this book, you will be fully prepared and able to implement deep learning concepts in your research work or projects. What you will learn Build shallow neural network prediction models Prevent models from overfitting the data to improve generalizability Explore techniques for finding the best hyperparameters for deep learning models Create NLP models using Keras and TensorFlow in R Use deep learning for computer vision tasks Implement deep learning tasks, such as NLP,

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- The Internet of Things (IoT)
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Do you need a general purpose, high level programming language? Do you want something that which focuses on readability and has less lines of codes than other programming languages? This book is one that provides that! Python is one of the best machine learning concepts currently on the market and it has seen a spike in popularity, mainly due to its simplicity

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Deep Learning Fundamentals

Applied machine learning with a solid foundation in theory. Revised and expanded for TensorFlow 2, GANs, and reinforcement learning. Purchase of the print or Kindle book includes a free eBook in the PDF format. Key Features Third edition of the bestselling, widely acclaimed Python machine learning book Clear and intuitive explanations take you deep into the theory and practice of Python machine learning Fully updated and expanded to cover TensorFlow 2, Generative Adversarial Network models, reinforcement learning, and best practices Book Description Python Machine Learning, Third Edition is a comprehensive guide to machine learning and deep learning with Python.

It acts as both a step-by-step tutorial, and a reference you'll keep coming back to as you build your machine learning systems. Packed with clear explanations, visualizations, and working examples, the book covers all the essential machine learning techniques in depth. While some books teach you only to follow instructions, with this machine learning book, Raschka and Mirjalili teach the principles behind machine learning, allowing you to build models and applications for yourself. Updated for TensorFlow 2.0, this new third edition introduces readers to its new Keras API features, as well as the latest additions to scikit-learn. It's also expanded to cover cutting-edge reinforcement learning techniques based on deep learning, as well as an introduction to

GANs. Finally, this book also explores a subfield of natural language processing (NLP) called sentiment analysis, helping you learn how to use machine learning algorithms to classify documents. This book is your companion to machine learning with Python, whether you're a Python developer new to machine learning or want to deepen your knowledge of the latest developments. What you will learn Master the frameworks, models, and techniques that enable machines to 'learn' from data Use scikit-learn for machine learning and TensorFlow for deep learning Apply machine learning to image classification, sentiment analysis, intelligent web applications, and more Build and train neural networks, GANs, and other models Discover best

practices for evaluating and tuning models Predict continuous target outcomes using regression analysis Dig deeper into textual and social media data using sentiment analysis Who this book is for If you know some Python and you want to use machine learning and deep learning, pick up this book. Whether you want to start from scratch or extend your machine learning knowledge, this is an essential resource. Written for developers and data scientists who want to create practical machine learning and deep learning code, this book is ideal for anyone who wants to teach computers how to learn from data.

[Introduction to Deep Learning and Neural Networks with Python™](#)

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Finally! Deep Neural Networks Simplified with Python Deep Learning Step by Step with Python takes you on a gentle, fun and unhurried journey to building your own deep neural network models in Python. Using plain English, it offers an intuitive, practical, non-mathematical, easy to follow guide to the most successful ideas, outstanding techniques and usable solutions available to the data scientist for deep neural networks using Python. NO EXPERIENCE REQUIRED This book is designed to be accessible - I'm assuming you never did like linear algebra, don't want to see things derived, dislike complicated computer code, and you're here because you want to see deep neural networks explained in plain English, and try them

out for yourself. It is so straightforward and easy to follow even your ten year old nephew (who dislikes math) can understand it! THIS BOOK IS FOR YOU IF YOU WANT: Explanations rather than mathematical derivation Real world applications that make sense. Illustrations to deepen your understanding. Worked examples in Python you can easily follow and immediately implement. Ideas you can actually use and try on your own data. QUICK AND EASY: Bestselling Data Scientist Dr. N.D Lewis shows you the shortcut up the steep steps to the very top. It's easier than you think. Through a simple to follow process you will learn how to build deep neural network models with Python. Once you have mastered the process, it will be easy for

you to translate your knowledge into your own powerful data science applications. YOU'LL LEARN HOW TO: Unleash the power of Deep Neural Networks for effective forecasting. Develop hands on solutions for binary classification. Design successful applications for multi-class problems. Master techniques for efficient model construction. Fine tune deep networks to

boost, accelerate, and transform predictive performance. Build Deep Learning Models Faster! Everything you need to get started is contained within this book. Deep Learning Step by Step with Python is your very own hands on practical, tactical, easy to follow guide to mastery Buy this book today your next big breakthrough using deep neural networks is only a page away!

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