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This book was designed to contain all the prerequisite information you need for my next book, Deep Learning in Python: Master Data Science and Machine Learning with Modern Neural Networks written in Python, Theano, and TensorFlow. There are many techniques that you should be comfortable with before diving into deep learning.

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This course will get you started in building your FIRST artificial neural network using deep learning techniques. Following my previous course on logistic regression, we take this basic building block, and build full-on non-linear neural networks right out of the gate using Python and Numpy. All the materials for this course are FREE.

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Deep Learning in Python: Master Data Science and Machine Learning with Modern Neural Networks written in Python, Theano, and TensorFlow (Machine Learning in Python) Kindle Edition

Summary **Deep Learning with Python** introduces the field of deep learning using the Python language and the powerful Keras library. Written by Keras creator and Google AI researcher François Chollet, this book builds your understanding through intuitive explanations and practical examples. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Machine learning has made remarkable progress in recent years. We went from near-unusable speech and image recognition, to near-human accuracy. We went from machines that couldn't beat a serious Go player, to defeating a world champion. Behind this progress—a combination of engineering advances, best practices, and theory that enables a wealth of previously impossible smart applications. About the Book **Deep Learning with Python** introduces the field of deep learning using the Python language and the powerful Keras library. Written by Keras creator and Google AI researcher François Chollet, this book builds your understanding through intuitive explanations and practical examples. You'll explore challenging concepts and practice with applications in computer vision, natural-language processing, and generative models. By the time you finish, you'll have the knowledge and hands-on skills to apply deep learning in your own projects. What's Inside **Deep learning** from first principles **Setting up your own deep-learning environment** **Image-classification models** **Deep learning for text and sequences** **Neural style transfer**, text generation, and image generation **About the Reader** Readers need intermediate Python skills. No previous experience with Keras, TensorFlow, or machine learning is required. About the Author François Chollet works on deep learning at Google in Mountain View, CA. He is the creator of the Keras deep-learning library, as well as a contributor to the TensorFlow machine-learning framework. He also does deep-learning research, with a focus on computer vision and the application of machine learning to formal reasoning. His papers have been published at major conferences in the field, including the Conference on Computer Vision and Pattern Recognition (CVPR), the Conference and Workshop on Neural Information Processing Systems (NIPS), the International Conference on Learning Representations (ICLR), and others. Table of Contents **PART 1 - FUNDAMENTALS OF DEEP LEARNING** What is deep learning? Before we begin: the mathematical building blocks of neural networks Getting started with neural networks Fundamentals of machine learning **PART 2 - DEEP LEARNING IN PRACTICE** Deep learning for computer vision Deep learning for text and sequences **Advanced deep-learning best practices** **Generative deep learning** **Conclusions** appendix A - Installing Keras and its dependencies on Ubuntu appendix B - Running Jupyter notebooks on an EC2 GPU instance

This book introduces basic-to-advanced deep learning algorithms used in a production environment by AI researchers and principal data scientists; it explains algorithms intuitively, including the underlying math, and shows how to implement them using popular Python-based deep learning libraries such as TensorFlow.

Unlock the groundbreaking advances of deep learning with this extensively revised edition of the bestselling original. Learn directly from the creator of Keras and master practical Python deep learning techniques that are easy to apply in the real world. In **Deep Learning with Python, Second Edition** you will learn: Deep learning from first principles **Image classification & image segmentation** **Timeseries forecasting** **Text classification and machine translation** **Text generation, neural style transfer, and image generation** **Deep Learning with Python** has taught thousands of readers how to put the full capabilities of deep learning into action. This extensively revised second edition introduces deep learning using Python and Keras, and is loaded with insights for both novice and experienced ML practitioners. You'll learn practical techniques that are easy to apply in the real world, and important theory for perfecting neural networks. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the technology Recent innovations in deep learning unlock exciting new software capabilities like automated language translation, image recognition, and more. Deep learning is becoming essential knowledge for every software developer, and modern tools like Keras and TensorFlow put it within your reach, even if you have no background in mathematics or data science. About the book **Deep Learning with Python, Second Edition** introduces the field of deep learning using Python and the powerful Keras library. In this new edition, Keras creator François Chollet offers insights for both novice and experienced machine learning practitioners. As you move through this book, you'll build your understanding through intuitive explanations, crisp illustrations, and clear examples. You'll pick up the skills to start developing deep-learning applications. What's inside **Deep learning** from first principles **Image classification and image segmentation** **Time series forecasting** **Text classification and machine translation** **Text generation, neural style transfer, and image generation** **About the reader** For readers with intermediate Python skills. No previous experience with Keras, TensorFlow, or machine learning is required. About the author François Chollet is a software engineer at Google and creator of the Keras deep-learning library. Table of Contents 1 What is deep learning? 2 The mathematical building blocks of neural networks 3 Introduction to Keras and TensorFlow 4 Getting started with neural networks: Classification and regression 5 Fundamentals of machine learning 6 The universal workflow of machine learning 7 Working with Keras: A deep dive 8 Introduction to deep learning for computer vision 9 Advanced deep learning for computer vision 10 Deep learning for text 12 Generative deep learning 13 Best practices for the real world 14 Conclusions

Unlock deeper insights into Machine Learning with this vital guide to cutting-edge predictive analytics About This Book Leverage Python's most powerful open-source libraries for deep learning, data wrangling, and data visualization **Learn effective strategies and best practices to improve and optimize machine learning systems and algorithms** **Ask – and answer – tough questions of your data with robust statistical models, built for a range of datasets** **Who This Book Is For** If you want to find out how to use Python to start answering critical questions of your data, pick up **Python Machine Learning – whether you want to get started from scratch or want to extend your data science knowledge, this is an essential and unmissable resource. What You Will Learn** **Explore how to use different machine learning models to ask different questions of your data** **Learn how to build neural networks using Keras and Theano** **Find out how to write clean and elegant Python code that will optimize the strength of your algorithms** **Discover how to embed your machine learning model in a web application for increased accessibility** **Predict continuous target outcomes using regression analysis** **Uncover hidden patterns and structures in data with clustering** **Organize data using effective pre-processing techniques** **Get to grips with sentiment analysis to delve deeper into textual and social media data** **In Detail** Machine learning and predictive analytics are transforming the way businesses and other organizations operate. Being able to understand trends and patterns in complex data is critical to success, becoming one of the key strategies for unlocking growth in a challenging contemporary marketplace. Python can help you deliver key insights into your data – its unique capabilities as a language let you build sophisticated algorithms and statistical models that can reveal new perspectives and answer key questions that are vital for success. **Python Machine Learning** gives you access to the world of predictive analytics and demonstrates why Python is one of the world's leading data science languages. If you want to ask better questions of data, or need to improve and extend the capabilities of your machine learning systems, this practical data science book is invaluable. Covering a wide range of powerful Python libraries, including scikit-learn, Theano, and Keras, and featuring guidance and tips on everything from sentiment analysis to neural networks, you'll soon be able to answer some of the most important questions facing you and your organization. **Style and approach** **Python Machine Learning** connects the fundamental theoretical principles behind machine learning to their practical application in a way that focuses you on asking and answering the right questions. It walks you through the key elements of Python and its powerful machine learning libraries, while demonstrating how to get to grips with a range of statistical models.

Inside this book you will find all the basic notions to start with Python and all the programming concepts to build machine learning models. With our proven strategies you will write efficient Python codes in less than a week!

Master the essential skills needed to recognize and solve complex problems with machine learning and deep learning. Using real-world examples that leverage the popular Python machine learning ecosystem, this book is your perfect companion for learning the art and science of machine learning to become a successful practitioner. The concepts, techniques, tools, frameworks, and methodologies used in this book will teach you how to think, design, build, and execute machine learning systems and projects successfully. **Practical Machine Learning with Python** follows a structured and comprehensive three-tiered approach packed with hands-on examples and code. **Part 1** focuses on understanding machine learning concepts and tools. This includes machine learning basics with a broad overview of algorithms, techniques, concepts and applications, followed by a tour of the entire Python machine learning ecosystem. **Brief guides** for useful machine learning tools, libraries and frameworks are also covered. **Part 2** details standard machine learning pipelines, with an emphasis on data processing analysis, feature engineering, and modeling. You will learn how to process, wrangle, summarize and visualize data in its various forms. **Feature engineering and selection methodologies** will be covered in detail with real-world datasets followed by model building, tuning, interpretation and deployment. **Part 3** explores multiple real-world case studies spanning diverse domains and industries like retail, transportation, movies, music, marketing, computer vision and finance. For each case study, you will learn the application of various machine learning techniques and methods. The hands-on examples will help you become familiar with state-of-the-art machine learning tools and techniques and understand what algorithms are best suited for any problem. **Practical Machine Learning with Python** will empower you to start solving your own problems with machine learning today! **What You'll Learn** **Execute end-to-end machine learning projects and systems** **Implement hands-on examples with industry standard, open source, robust machine learning tools and frameworks** **Review case studies depicting applications of machine learning and deep learning on diverse domains and industries** **Apply a wide range of machine learning models including regression, classification, and clustering. Understand and apply the latest models and methodologies from deep learning including CNNs, RNNs, LSTMs and transfer learning. Who This Book Is For** **IT professionals, analysts, developers, data scientists, engineers, graduate students**

Reinforcement learning is a self-evolving type of machine learning that takes us closer to achieving true artificial intelligence. This easy-to-follow guide explains everything from scratch using rich examples written in Python.

Easily Boost Your Skills In Python Programming & Become A Master In Deep Learning & Data Analysis! ? Python is an interpreted, high-level, general-purpose programming language that emphasizes code readability with its notable use of significant whitespace. What makes Python so popular in the IT industry is that it uses an object-oriented approach, which enables programmers to write clear, logical code for all types of projects, whether big or small. **Hone your Python Programming skills and gain a sharp edge over other programmers the EASIEST way possible...** with this practical beginner's guide! **In his 3-in-1 Python crash course for beginners, Anthony Adams** gives novices like you simple, yet efficient tips and tricks to become a MASTER in Python coding for artificial intelligence, neural networks, machine learning, and data science/analysis! **Here's what you'll get:** ? Highly innovative ways to boost your understanding of Python programming, data analysis, and machine learning ? Quickly and effectively stop fraud with machine learning ? Practical and efficient exercises that make understanding Python quick & easy **And so much more!** **As a beginner, you might feel a bit intimidated by the complexities of coding. Add the fact that most Python Programming crash course guides make learning harder than it has to be!** ? With the help of this 3-in-1 guide, you will be given carefully sequenced Python Programming lessons that'll maximize your understanding, and equip you with all the skills for real-life application! ? **Thrive in the IT industry with this comprehensive Python Programming crash course!** ? **Scroll up, Click on "Buy Now", and Start Learning Today!**

Gain expertise in advanced deep learning domains such as neural networks, meta-learning, graph neural networks, and memory augmented neural networks using the Python ecosystem **Key Features** **Get to grips with building faster and more robust deep learning architectures** **Investigate and train convolutional neural network (CNN) models with GPU-accelerated libraries such as TensorFlow and PyTorch** **Apply deep neural networks (DNNs) to computer vision problems, NLP, and GANs** **Book Description** **In order to build robust deep learning systems, you'll need to understand everything from how neural networks work to training CNN models. In this book, you'll discover newly developed deep learning models, methodologies used in the domain, and their implementation based on areas of application. You'll start by understanding the building blocks and the math behind neural networks, and then move on to CNNs and their advanced applications in computer vision. You'll also learn to apply the most popular CNN architectures in object detection and image segmentation. Further on, you'll focus on variational autoencoders and GANs. You'll then use neural networks to extract sophisticated vector representations of words, before going on to cover various types of recurrent networks, such as LSTM and GRU. You'll even explore the attention mechanism to process sequential data without the help of recurrent neural networks (RNNs). Later, you'll use graph neural networks for processing structured data, along with covering meta-learning, which allows you to train neural networks with fewer training samples. Finally, you'll understand how to apply deep learning to autonomous vehicles. By the end of this book, you'll have mastered key deep learning concepts and the different applications of deep learning models in the real world. What you will learn** **Cover advanced and state-of-the-art neural network architectures** **Understand the theory and math behind neural networks** **Train DNNs and apply them to modern deep learning problems** **Use CNNs for object detection and image segmentation** **Implement generative adversarial networks (GANs) and variational autoencoders to generate new images** **Solve natural language processing (NLP) tasks, such as machine translation, using sequence-to-sequence models** **Understand DL techniques, such as meta-learning and graph neural networks** **Who this book is for** **This book is for data scientists, deep learning engineers and researchers, and AI developers who want to further their knowledge of deep learning and build innovative and unique deep learning projects. Anyone looking to get to grips with advanced use cases and methodologies adopted in the deep learning domain using real-world examples will also find this book useful. Basic understanding of deep learning concepts and working knowledge of the Python programming language is assumed.**

Through a series of recent breakthroughs, deep learning has boosted the entire field of machine learning. Now, even programmers who know close to nothing about this technology can use simple, efficient tools to implement programs capable of learning from data. This practical book shows you how. By using concrete examples, minimal theory, and two production-ready Python frameworks—Scikit-Learn and TensorFlow—author Aurélien Géron helps you gain an intuitive understanding of the concepts and tools for building intelligent systems. You'll learn a range of techniques, starting with simple linear regression and progressing to deep neural networks. With exercises in each chapter to help you apply what you've learned, all you need is programming experience to get started. Explore the machine learning landscape, particularly neural nets Use Scikit-Learn to track an example machine-learning project end-to-end Explore several training models, including support vector machines, decision trees, random forests, and ensemble methods Use the TensorFlow library to build and train neural nets Dive into neural net architectures, including convolutional nets, recurrent nets, and deep reinforcement learning **Learn techniques for training and scaling deep neural nets**

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