

Convolutional Neural Networks In Python Beginners Guide To Convolutional Neural Networks In Python

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Python Machine Learning Kevin Howey 2019-07-28 ★★Buy the Paperback version of this Book and get the E-Book for FREE★★ The world of technology is growing all the time. It seems like a new technology is coming out all of the time, and it seems like it is outpacing what most traditional coding languages are able to do. While there is a lot that you are able to with traditional forms of coding, it isn't able to meet all of your needs. What if we were able to make a program that was able to learn on its own? What if we could put in a bit of information, and the program were able to do what it needed to, and take control. This is where the beauty of machine learning is going to come into play! This guidebook is going to take some time to look at machine learning, and how you are able to work with the Python language in order to make it work and to help you create some of the best programs out there! Imagine all that you can do when you bring in machine learning and can create programs and more that can think for and learn on their own! Some of the topics that we are going to explore with Python machine learning inside this guidebook include: The different types of machine learning that you are able to work with. The difference between machine learning and deep learning. How to set up and use the Scikit-learn library from Python. How to set up and use the TensorFlow library. The K-Nearest Neighbors and the K-Means clustering algorithms. How to use support vector machines with machine learning. Working with neural networks and recurrent neural networks. How decisions trees can help you make smarter decisions, and turning these decision trees into random forests. Working with linear classifiers when you are in machine learning. There are so many things that we are able to work with when it comes to machine learning, and the field is going to grow in leap and bounds through the years. If you are ready to learn more about machine learning and how to implement some of the algorithms with the help of Python, make sure to check out this guidebook to get started. Scroll Up and Click the Buy Now Button!

Artificial Intelligence Roman Shirkin 2020-02-04 If you are searching for resources to start studying Artificial Intelligence then you are in the right place. The author discusses all the things step by step in this short and cheap textbook for beginners.Artificial intelligence is one of the most important breakthroughs in today's world. Experts from various industries study its capabilities and discover new methods of its application. If you want to know about AI, so this book is the perfect one to start Get your copy now!!!Book ObjectivesThis book is about Artificial Intelligence. The author wrote the book with the following objectives: To help you understand what artificial intelligence is. To help you learn the various approaches to artificial intelligence. To help you appreciate the power of artificial intelligence and how it has revolutionized the various sectors in the world. To equip you with Python programming skills good for artificial intelligence. To help you understand the future of artificial intelligence and its expected impact on the various sectors in the world. Who this Book is for? This book as written with the following groups of people in mind: Any individual in need of learning the basics and theories of artificial intelligence. Any individual who needs to understand the various practical approaches to artificial intelligence. Anyone who needs to learn how artificial intelligence has impacted the world and how it will impact the world in the future. Anyone who needs to learn Python programming skills good for artificial intelligence. RequirementsThe author expects you to have a computer installed with the Python interpreter. What you will learn? Basics of AI Intelligent Systems Intelligent Agents and Environments Problem Solving Through Searching Machine Learning Deep Learning Convolutional Networks Natural Language Processing Fuzzy Logic Systems Knowledge Representation The future of AI The author begins by introducing you to the basics of artificial intelligence. The aim is to help you know what artificial intelligence is, its goals and its components. Intelligent systems, intelligent agents and their environments have been discussed. You will know what intelligent systems/agents are and where they are applied. The author has also discussed the various challenges intelligent systems/agents face when acting on their environments. Searching is a common technique of solving problems in artificial intelligence. The various search algorithms have been discussed. Machine learning is a very important field in artificial intelligence. This has been discussed in detail. You will also learn how to implement various machine learning algorithms in Python programming language. Deep learning and artificial neural networks have been explored in detail. You will learn how artificial neural networks work. The various applications of deep learning have been discussed. The process of creating artificial neural networks in the Python programming language has been discussed. Other topics that have been discussed include convolutional neural networks, natural language processing, knowledge representation, and fuzzy logic. The author has finally done a prediction to help you know how artificial intelligence is expected to revolutionize the various sectors in the world.

Deep Learning With Python Ethan Williams 2020-05-27 Introduction 1Deep Learning with Python - The ultimate beginners guide to Learn Deep Learning with Python Step by StepYou have made a perfect choice to consider learning Python and most importantly to develop your skills in the programming world. A good choice comes with good tidings since you have you are looking at a highly comprehensive beginners' guidebook that will provide you with all the necessary steps and tips to get started. Deep Learning with Python - The ultimate beginners guide to Learn Deep Learning with Python Step by Step is packed with basic beginners' concepts, detailed examples and extra reminder exercises.Newbies are totally welcome to dive in! You do not need any experience with programming whatsoever. Just have a notepad ready because taking short notes helps and get ready to play around with the samples and do a whole lot of coding!The program was developed in December 1989 by Guido van Rossum. Guido's passion and hobby was to write and learn new codes that were available during his time. It is documented that he developed the python programming language while interacting and learning the ABC programming language.This is one of the best languages that you can choose to begin learning and at the end have a successful career in it. In summary, since the programming language was open-sourced, we expect a lot of advancements and developments on the language that will make it simpler and easier to use over the coming years.Introduction 2Deep Learning with Python - Comprehensive Guide of Tips and Tricks using Deep Learning with Python TheoriesThis book is designed to help you use Python for deep learning, including how to build and run deep learning models using Keras. This book also includes deep learning techniques, sample code, and technical content.The mathematical foundations of deep learning are subtle: but the average user doesn't need to fully understand the mathematical details to pick up the keyboard and start programming. Practically speaking, deep learning is not complicated, but the results are very objective. Teach you how to use deep learning: this is the purpose of this book.Introduction 3Deep Learning with Python - Advanced and Effective Strategies of Using Deep Learning with Python TheoriesThis book discusses the intricacies of the internal workings of a deep learning model. It addresses the techniques and methods that can not only boost the productivity of your machine learning architectural skills, but also introduces new concepts. Implemented correctly, these can set your deep learning model a league apart from all other models. This book not only focuses on theoretical and conceptual realms of such knowledge, but also gives equal importance to putting this information to the test. We do this by including some common practical examples and demonstrations that you would normally build deep learning for, hence giving you the best of both worlds. The main features of this book include: -Refreshing the fundamentals of a deep learning model and neural networks and connecting them with the advanced knowledge laid out in this book, reinforcing the reader's prior knowledge and transforming it into an expert-level understanding.-Emphasizing those tasks that are commonly demanded from deep learning models and breathing new life into them by introducing new techniques, methods, and elements that enable the model to drastically improve the performance of deep learning models on such tasks.-No usage of mathematical notations in the examples detailed in this book so that the concepts can be readily assimilated and mastered by programmers that do not have a mathematical background, hence prioritizing clarity of concepts.-Keeping this requirement in mind, the examples use Numpy code throughout as it best represents what the code actually means and its purpose.If you want to learn advanced strategies for Python this is the book for you.

Python Programming, Deep Learning Anthony Adams 2020-04-15 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 in 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!

Deep Learning for Beginners Dr. Pablo Rivas 2020-09-18 Implement supervised, unsupervised, and generative deep learning (DL) models using Keras and Dopamine with TensorFlow Key FeaturesUnderstand the fundamental machine learning concepts useful in deep learningLearn the underlying mathematical concepts as you implement deep learning models from scratchExplore easy-to-understand examples and use cases that will help you build a solid foundation in DLBook Description With information on the web exponentially increasing, it has become more difficult than ever to navigate through everything to find reliable content that will help you get started with deep learning. This book is designed to help you if you're a beginner looking to work on deep learning and build deep learning models from scratch, and you already have the basic mathematical and programming knowledge required to get started. The book begins with a basic overview of machine learning, guiding you through setting up popular Python frameworks. You will also understand how to prepare data by cleaning and preprocessing it for deep learning, and gradually go on to explore neural networks. A dedicated section will give you insights into the working of neural networks by helping you get hands-on with training single and multiple layers of neurons. Later, you will cover popular neural network architectures such as CNNs, RNNs, AEs, VAEs, and GANs with the help of simple examples, and learn how to build models from scratch. At the end of each chapter, you will find a question and answer section to help you test what you've learned through the course of the book. By the end of this book, you'll be well-versed with deep learning concepts and have the knowledge you need to use specific algorithms with various tools for different tasks. What you will learnImplement recurrent neural networks (RNNs) and long short-term memory (LSTM) for image classification and natural language processing tasksExplore the role of convolutional neural networks (CNNs) in computer vision and signal processingDiscover the ethical implications of deep learning modelingUnderstand the mathematical terminology associated with deep learningCode a generative adversarial network (GAN) and a variational autoencoder (VAE) to generate images from a learned latent spaceImplement visualization techniques to compare AEs and VAEsWho this book is for This book is for aspiring data scientists and deep learning engineers who want to get started with the fundamentals of deep learning and neural networks. Although no prior knowledge of deep learning or machine learning is required, familiarity with linear algebra and Python programming is necessary to get started.

Python William Dimick 2020-10-17 Python Programming: The Ultimate Beginner's Guide to Python, Data Science, and Machine Learning to Help You Go from Noob to Pro FAST Do you want to break through as a Python programmer and join the AI future? Are you a business owner who wants to have a clear grasp of the kind of work they need to have done? Whatever the case may be, this book will help you understand and apply Python like a pro! Python is the language of the future, there's no doubt about it. Machine learning and data science are growing industries, and guess what? Both require extensive Python talent to come to join. Although it's been around since 1991, Python is the fastest-growing language today. A lot of it comes down to Python being very readable, simple, and highly productive for coding. Plus, it's super easy to learn - well, easier than C++ anyway. Don't let the naysayers deter you. It's never too late to learn a coding language, whether you're 15 or 50! Python is 20 years old, so there's a lot of resources online that you can study from. However, one common problem in learning from tutorials is that you don't know where to start. You don't know which video applies to your level of skill. Sometimes you will waste hours watching something you don't need. What's more, Python has a million applications today. In this book, we will cover the basics of Python and it's applications in ML and Data Science. This book is perfect for beginners because it will take you through everything you need to know, step by step. No stone left unturned, but we will keep the new info coming in a steady, organized, and easy-to-follow stream. Here's what you'll learn in this book: History of Python and the internal logic of the language How to install Python on various different platforms All the most important features of the language with exercises What is Data Science and Analysis and how Python plays into that How to use Python for model building, data visualization, and feature extraction Big Data and its applications in the future modern world Learning framework and generalization models for Machine Learning How to use Scikit-Learn and understand tabular data and target arrays Python for Machine Learning and data mining categories How convolutional neural networks work Top 10 AI and Machine Learning frameworks to learn AND SO MUCH MORE! Whether you're a complete noob for programming, or you're a coder who wants to switch to Python, you will find that this book is the right way to go. It contains all the information you need to master the fundamentals of Python and understand how to use it for Data Science and Machine Learning. The sheer volume and quality of the information in this 3-in-1 Python bible beats any YouTube tutorial by far! So Scroll up and order now!

Python Machine Learning Brandon Railey 2019-04-08 Have you come across the terms machine learning and neural networks in most articles you have recently read? Do you also want to learn how to build a machine learning model that will answer your questions within a blink of your eyes? If you responded yes to any of the above questions, you have come to the right place. Machine learning is an incredibly dense topic. It's hard to imagine condensing it into an easily readable and digestible format. However, this book aims to do exactly that. Machine learning and artificial intelligence have been used in different machines and applications to improve the user's experience. One can also use machine learning to make data analysis and predicting the output for some data sets easy. All you need to do is choose the right algorithm, train the model and test the model before you apply it to any real-world tool. It is that simple isn't it? ★★Apart from this, you will also learn more about:★★ The Different Types Of Learning Algorithm That You Can Expect To Encounter The Numerous Applications Of Machine Learning And Deep Learning The Best Practices For Picking Up Neural Networks What Are The Best Languages And Libraries To Work With The Various Problems That You Can Solve With Machine Learning Algorithms And much more... Well, you can do it faster if you use Python. This language has made it easy for any user, even an amateur, to build a strong machine learning model since it has numerous directories and libraries that make it easy for one to build a model. Do you want to know how to build a machine learning model and a neural network? So, what are you waiting for? Grab a copy of this book now!

Deep Learning With Python Illustrated Guide For Beginners & Intermediates William Sullivan 2018-10-24 Deep Learning With Python Illustrated Guide For Beginners And Intermediates "Learn By Doing Approach" Includes Keras with TensorFlow Backend Deep learning originates from a broader family of machine learning, including supervised and unsupervised learning The python programming language is

one of the most popular languages for programmers in the 21st century. This programming language has been a fundamental cornerstone in a lot of technology we use today. -Things we take for granted on a daily basis. Developing both desktop and web applications, and more interestingly enough has been used to accomplish many artificial intelligence feats. The world is constantly changing and evolving and it appears machine learning could be the way of the future! As we speak technology on a massive scale is being developed to replace mundane and repetitive tasks humans interface with everyday through the use of "deep learning". Ultimately, this means less human errors and a more efficient ways of operating for many corporations. You can potentially become the next big start-up! Develop software, web development tools and many more online ventures! Companies That Use Python Currently Google Facebook Dropbox Yahoo IBM Mozilla Quora Why Programmers Choose To Use Python? Readable & Maintainable Code Dynamic Type System Compatible with Major Platforms and Systems Robust Standard Library Simplifies Complex Software Development Test Driven Development Highly Sought After Skill-Set For Employers Invest in your knowledge base by buying your copy right now. The greatest investment you can make is an investment in yourself! Python will pave the road of technological advancements and very much so shape the world we live in. Become apart of this global progression towards advanced technology through the use of "deep learning". What You'll Learn What is deep learning Theory of Artificial Neural Network Artificial Neural Network with Keras Image Classification with Convolutional Neural Network Environment Setup Natural Language Processing Evaluating and Tuning the ANN Sequence Modeling And, much, much more! By the end of this book you will have grasped the fundamentals of python programming & deep learning! There is also illustrations to go along to help you understand and retain the info on a much more profound level. Picture diagrams have scientifically proven to accelerate the learning process by over 120%! Buy Your Copy Right Now! *Convolutional Neural Networks in Python* Frank Millstein 2018-03-07 Convolutional Neural Networks in Python This book covers the basics behind Convolutional Neural Networks by introducing you to this complex world of deep learning and artificial neural networks in a simple and easy to understand way. It is perfect for any beginner out there looking forward to learning more about this machine learning field. This book is all about how to use convolutional neural networks for various image, object and other common classification problems in Python. Here, we also take a deeper look into various Keras layer used for building CNNs we take a look at different activation functions and much more, which will eventually lead you to creating highly accurate models able of performing great task results on various image classification, object classification and other problems. Therefore, at the end of the book, you will have a better insight into this world, thus you will be more than prepared to deal with more complex and challenging tasks on your own. Here Is a Preview of What You'll Learn In This Book... Convolutional neural networks structure How convolutional neural networks actually work Convolutional neural networks applications The importance of convolution operator Different convolutional neural networks layers and their importance Arrangement of spatial parameters How and when to use stride and zero-padding Method of parameter sharing Matrix multiplication and its importance Pooling and dense layers Introducing non-linearity relu activation function How to train your convolutional neural network models using backpropagation How and why to apply dropout CNN model training process How to build a convolutional neural network Generating predictions and calculating loss functions How to train and evaluate your MNIST classifier How to build a simple image classification CNN And much, much more!

Deep Learning with Python Benjamin Smith 2020-04-26 What do you look for when you are in the market - be it online or physical - when you are out buying your favorite book? You look for the best content that covers almost all aspects of the given topic. You want a book that has got all the information you need, and that is written concisely and clearly.This book is not only for programmers and IT professionals but also for businesspeople who are looking forward to boosting their average sales and customer experience. This book contains all the relevant topics that you'll want to know about deep learning neural networks. You will learn some amazing facts about the role of artificial intelligence in our daily lives. Deep learning is gradually inching toward grabbing hold of all businesses across the world. What makes this book interesting and unique is the fact that it contains practical examples of deep learning neural network that you can study to increase your understanding of these neural networks. The book explains how, as a professional, you can introduce AI in your operations. You'll discover: -Python Data Types-Python User Input and Loops-Python Input()-Python Loops-Python Functions-Python Classes-Artificial Intelligence -Machine Learning-Deep Learning -Linear Regression -Artificial Intelligence in Business-AI in Business-AI in Customer Service-Self-Driving Cars-Generation of Texts-Predicting Earthquake and Cancer-The Future of Deep Learning-Artificial Neural Networks-Convolutional Neural Network-Implementation Using Keras-Deep Learning with Keras-Project Debater-IBM Watson-Ethical Implications of Deep Learning-Loss of Jobs-Racist Robots-Drawbacks of Deep LearningSo what are you waiting for? Get started today by clicking the Buy Now button!

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Programming With Python Frank Millstein 2020-09-05 Programming With Python - 4 BOOK BUNDLE!! Deep Learning with Keras Here Is a Preview of What You'll Learn Here... The difference between deep learning and machine learning Deep neural networks Convolutional neural networks Building deep learning models with Keras Multi-layer perceptron network models Activation functions Handwritten recognition using MNIST Solving multi-class classification problems Recurrent neural networks and sequence classification And much more... Convolutional Neural Networks in Python Here Is a Preview of What You'll Learn In This Book... Convolutional neural networks structure How convolutional neural networks actually work Convolutional neural networks applications The importance of convolution operator Different convolutional neural networks layers and their importance Arrangement of spatial parameters How and when to use stride and zero-padding Method of parameter sharing Matrix multiplication and its importance Pooling and dense layers Introducing non-linearity relu activation function How to train your convolutional neural network models using backpropagation How and why to apply dropout CNN model training process How to build a convolutional neural network Generating predictions and calculating loss functions How to train and evaluate your MNIST classifier How to build a simple image classification CNN And much, much more! Python Machine Learning Here Is a Preview Of What You'll Learn Here... Basics behind machine learning techniques Different machine learning algorithms Fundamental machine learning applications and their importance Getting started with machine learning in Python, installing and starting SciPy Loading data and importing different libraries Data summarization and data visualization Evaluation of machine learning models and making predictions Most commonly used machine learning algorithms, linear and logistic regression, decision trees support vector machines, k-nearest neighbors, random forests Solving multi-classification problems Data visualization with Matplotlib and data transformation with Pandas and Scikit-learn Solving multi-label classification problems And much, much more... Machine Learning With TensorFlow Here Is a Preview of What You'll Learn Here... What is machine learning Main uses and benefits of machine learning How to get started with TensorFlow, installing and loading data Data flow graphs and basic TensorFlow expressions How to define your data flow graphs and how to use TensorBoard for data visualization Main TensorFlow operations and building tensors How to perform data transformation using different techniques How to build high performance data pipelines using TensorFlow Dataset framework How to create TensorFlow iterators Creating MNIST classifiers with one-hot transformation Get this book bundle NOW and SAVE money!

Natural Computing with Python Giancarlo Zacone 2019-09-17 Step-by-step guide to learn and solve complex computational problems with Nature Inspired algorithms. DESCRIPTION Natural Computing is the field of research inspired by nature, that allows the development of new algorithms to solve complex problems, leads to the synthesis of natural models, and may result in the design of new computing systems. This book exactly aims to educate you with practical examples on topics of importance associated with research field of Natural computing. The initial few chapters will quickly walk you through Neural Networks while describing deep learning architectures such as CNN, RNN and AutoEncoders using Keras. As you progress further, you'll gain understanding to develop genetic algorithm to solve traveling salesman problem, implement swarm intelligence techniques using the SwarmPackagePy and Cellular Automata techniques such as Game of Life, Langton's ant, etc. The latter half of the book will introduce you to the world of Fractals such as such as the Cantor Set and the Mandelbrot Set, develop a quantum program with the QISKit tool that runs on a real quantum computing platform, namely the IBM Q Machine and a Python simulation of the Adleman experiment that showed for the first time the possibility of performing computations at the molecular level. KEY FEATURES Artificial Neural Networks Deep Learning models using Keras Quantum Computers and Programming Genetic Algorithms, CNN and RNNs Swarm Intelligence Systems Reinforcement Learning using OpenAI Artificial Life DNA computing Fractals WHAT WILL YOU LEARN Mastering Artificial Neural Networks Developing Artificial Intelligence systems Resolving complex problems with Genetic Programming and Swarm intelligence algorithms Programming Quantum Computers Exploring the mathematical world of fractals Simulating complex systems by Cellular Automata Understanding the basics of DNA computation WHO THIS BOOK IS FOR This book is for all science enthusiasts, in particular who want to understand what are the links between computer sciences and natural systems. Interested readers should have good skills in math and python programming along with some basic knowledge of physics and biology. . Although, some knowledge of the topics covered in the book will be helpful, it is not essential to have worked with the tools covered in the book. Table of Contents Neural Networks Deep Learning Genetic Programming Swarm Intelligence Cellular Automata Fractals Quantum Computing DNA Computing

Deep Learning With Python Benjamin Smith 2021-01-04 Are you interested in taking your deep learning knowledge to the next level? Then this is the book for you! Machine and deep learning are the future, and there's no getting away from that. So learning it now, and learning how to do it the right way will put you ahead of the crowd. Deep learning is all about understanding and learning about neural networks, and Python is the best computer programming language to do that with. Learning to program is not easy, but consistent practice is the key. Learning to program efficiently in Python and building deep learning neural networks becomes simple to do with practice and guidance.In this book, you will learn: -The basics of the Python programming language-All about variables, strings, classes, statements, dictionaries, functions, and more-What Artificial Intelligence is-What Deep Learning is-How to build a deep neural network with Keras-How to build a deep learning convolutional neural network-The practical applications of deep learning-The benefits and the drawbacks of deep learningAnd so much more!Don't delay. Start your advanced deep learning journey today by clicking the Buy Now button! *Deep Learning* Frank Millstein 2020-08-14 Deep Learning - 2 BOOK BUNDLE!! Deep Learning with Keras This book will introduce you to various supervised and unsupervised deep learning algorithms like the multilayer perceptron, linear regression and other more advanced deep convolutional and recurrent neural networks. You will also learn about image processing, handwritten recognition, object recognition and much more. Furthermore, you will get familiar with recurrent neural networks like LSTM and GAN as you explore processing sequence data like time series, text, and audio. The book will definitely be your best companion on this great deep learning journey with Keras introducing you to the basics you need to know in order to take next steps and learn more advanced deep neural networks. Here Is a Preview of What You'll Learn Here... The difference between deep learning and machine learning Deep neural networks Convolutional neural networks Building deep learning models with Keras Multi-layer perceptron network models Activation functions Handwritten recognition using MNIST Solving multi-class classification problems Recurrent neural networks and sequence classification And much more... Convolutional Neural Networks in Python This book covers the basics behind Convolutional Neural Networks by introducing you to this complex world of deep learning and artificial neural networks in a simple and easy to understand way. It is perfect for any beginner out there looking forward to learning more about this machine learning field. This book is all about how to use convolutional neural networks for various image, object and other common classification problems in Python. Here, we also take a deeper look into various Keras layer used for building CNNs we take a look at different activation functions and much more, which will eventually lead you to creating highly accurate models able of performing great task results on various image classification, object classification and other problems. Therefore, at the end of the book, you will have a better insight into this world, thus you will be more than prepared to deal with more complex and challenging tasks on your own. Here Is a Preview of What You'll Learn In This Book... Convolutional neural networks structure How convolutional neural networks actually work Convolutional neural networks applications The importance of convolution operator Different convolutional neural networks layers and their importance Arrangement of spatial parameters How and when to use stride and zero-padding Method of parameter sharing Matrix multiplication and its importance Pooling and dense layers Introducing non-linearity relu activation function How to train your convolutional neural network models using backpropagation How and why to apply dropout CNN model training process How to build a convolutional neural network Generating predictions and calculating loss functions How to train and evaluate your MNIST classifier How to build a simple image classification CNN And much, much more! Get this book bundle NOW and SAVE money!

Deep Learning with Python Francois Chollet 2017-11-30 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 is deep learning—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 **Python Programming** Frank Millstein 2020-09-07 Programming With Python - 8 BOOK BUNDLE!! Deep Learning With Keras Here Is A Preview Of What You'll Learn Here... The difference between deep learning and machine learning Deep neural networks Convolutional neural networks Building deep learning models with Keras Multi-layer perceptron network models And much more... Convolutional Neural Networks In Python Here Is A Preview Of What You'll Learn Here... Convolutional neural networks structure How convolutional neural networks actually work Convolutional neural networks applications The importance of convolution operator How to build a simple image classification CNN And much, much more! Python Machine Learning Here Is A Preview Of What You'll Learn Here... Basics behind machine learning techniques Most commonly used machine learning algorithms, linear and logistic regression, decision trees support vector machines, k-nearest neighbors, random forests Solving multi-classification problems Data visualization with Matplotlib and data transformation with Pandas and Scikit-learn Solving multi-label classification problems And much, much more... Machine Learning With TensorFlow Here Is A Preview Of What You'll Learn Here... What is machine learning Main uses and benefits of machine learning How to get started with TensorFlow, installing and loading data Data flow graphs and basic TensorFlow expressions Creating MNIST classifiers with one-hot transformation And much, much more... Data Analytics With Python Here Is A Preview Of What You'll Learn Here... What is Data Analytics? Difference between data science, big data and data analytics Installing python Python data structures Pandas series and data frames And much, much more... Natural Language Processing With Python Here Is A Preview Of What You'll Learn Here... Challenges of natural language processing How natural language processing works? Part of speech tagging N-grams Running natural language processing script And much, much more... DevOps Handbook Here Is A Preview Of What You'll Learn Here... Issues and mistakes plaguing software development What is software development life cycle? How software development life cycle works? The origins of devops Testing and building systems tools And much, much more... DevOps Adoption Here Is A Preview Of What You'll Learn Here... Devops definition Overcoming traditional dev and ops Devops and security integration Devops success factors Is devops right for you? And much, much more... Get this book bundle NOW and SAVE money!

Deep Learning with Python Brian Walker 2019-06-20 Artificial intelligence takes many shapes and forms. At this point in its evolution, machine learning and deep learning are two of the most common shapes it takes. This is primarily because we are at a point where we have discovered how to create networks of information that can actually be filtered and processed just as a normal human cognitive process would be. Beyond all those shapes and forms of AI, though, this entire concept is built based on a few basic ideas: Information is power Neural networks can imitate the human brain Programmers can create machine programs that enable them to filter information in a specific way, that allows them to draw conclusions and grow their learning based on that Hopefully, the book at hand will help you gain a better understanding of the grand scheme of deep learning - and even more specifically, how deep learning connects to Python, one of the single most popular programming languages of the moment. I have structured the book in a way that allows you to make sense of everything in the most logical way possible. What are you waiting for?.. Grab a copy of this book and start to explore the world of Deep Learning with Python!

Python Machine Learning Brandon Railey 2019-11-18 Have you come across the terms machine learning and neural networks in most articles you have recently read? Do you also want to learn how to build a machine learning model that will answer your questions within a blink of your eyes? If you responded yes to any of the above questions, you have come to the right place.

Python Machine Learning Leonard Foster 2019-12-29 Machine learning is a new trending field these days and is an application of artificial intelligence. It uses specific statistical algorithms to make computers work in a certain way without being explicitly programmed.Would you like to know the basics of python machine learning and how to solve problems with it?Well, you are in the right place!This book gives you the opportunity to understand how python machine learning works and how to learn and apply these techniques in everyday life.You will learn the basics of programming in python and some examples of problems which can be solved with machine learning.Some of the topics that we will explore in this audiobook include:*All you need to know about machine learning*Deep learning and neural network*The different type of learning algorithm*The various problem you can solve with the learning machine*Best language and libraries to work with*What is python language*The basics of python*The best practice of neural networks*Popular programming languageThe work was written especially for beginners. The topic is treated with simplicity and it is easy to read and understand.If you want to improve on your projects and applications, make sure you take a look at this book that will give you the right help to get you started!

Python Programming, Deep Learning Anthony Adams 2021-12-17 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!

Neural Network Projects with Python James Loy 2019-02-28 Build your Machine Learning portfolio by creating 6 cutting-edge Artificial Intelligence projects using neural networks in Python Key FeaturesDiscover neural network architectures (like CNN and LSTM) that are driving recent advancements in AIBuild expert neural networks in Python using popular libraries such as KerasIncludes projects such as object detection, face identification, sentiment analysis, and moreBook Description Neural networks are at the core of recent AI advances, providing some of the best resolutions to many real-world problems, including image recognition, medical diagnosis, text analysis, and more. This book goes through some basic neural network and deep learning concepts, as well as some popular libraries in Python for implementing them. It contains practical demonstrations of neural networks in domains such as fare prediction, image classification, sentiment analysis, and more. In each case, the book provides a problem statement, the specific neural network architecture required to tackle that problem, the reasoning behind the algorithm used, and the associated Python code to implement the solution from scratch. In the process, you will gain hands-on experience with using popular Python libraries such as Keras to build and train your own neural networks from scratch. By the end of this book, you will have mastered the different neural network architectures and created cutting-edge AI projects in Python that will immediately strengthen your machine learning portfolio. What you will learnLearn various neural network architectures and its advancements in AIMaster deep learning in Python by building and training neural networkMaster neural networks for regression and classificationDiscover convolutional neural networks for image recognitionLearn sentiment analysis on textual data using Long Short-Term MemoryBuild and train a highly accurate facial recognition security systemWho this book is for This book is a perfect match for data scientists, machine learning engineers, and deep learning enthusiasts who wish to create practical neural network projects in Python. Readers should already have some basic knowledge of machine learning and neural networks.

Beginning with Deep Learning Using TensorFlow Mohan Kumar Silaparasetty 2022-02-09 A Practicing Guide to TensorFlow and Deep Learning KEY FEATURES ● Equipped with a necessary introduction to Deep Learning and AI. ● Includes demos and templates to give your projects a good start. ● Find more on the most important facets of AI, image, and speech recognition. DESCRIPTION This book begins with the configuration of an Anaconda development environment, essential for practicing the deep learning process. The basics of machine learning, which are needed for Deep Learning, are explained in this book. TensorFlow is the industry-standard library for Deep Learning, and thereby, it is covered extensively with both versions, 1.x and 2.x. As neural networks are the heart of Deep Learning, the book explains them in great detail and systematic fashion, beginning with a single neuron and progressing through deep multilayer neural networks. The emphasis of this book is on the practical application of key concepts rather than going in-depth with them. After establishing a firm basis in TensorFlow and Neural Networks, the book explains the concepts of image recognition using Convolutional Neural Networks (CNN), followed by speech recognition, and natural language processing (NLP). Additionally, this book discusses Transformers, the most recent advancement in NLP. WHAT YOU WILL LEARN ● Create machine learning models for classification and regression. ● Utilize TensorFlow 1.x to implement neural networks. ● Work with the Keras API and TensorFlow 2. ● Learn to design and train image categorization models. ● Construct translation and Q & A apps using transformer-based language models. WHO THIS BOOK IS FOR This book is intended for those new to Deep Learning who want to learn about its principles and applications. Before you begin, you'll need to be familiar with Python. TABLE OF CONTENTS 1. Introduction to Artificial Intelligence 2. Machine Learning 3. TensorFlow Programming 4. Neural Networks 5. TensorFlow 2.6. Image Recognition 7. Speech Recognition

Deep Learning with Python Benjamin Smith 2021-03-14 This book is not only for programmers and IT professionals but also for businesspeople who are looking forward to boosting their average sales and customer experience. This book contains all the relevant topics that you'll want to know about deep learning neural networks. You will learn some amazing facts about the role of artificial intelligence in our daily lives. Deep learning is gradually inching toward grabbing hold of all businesses across the world. What makes this book interesting and unique is the fact that it contains practical examples of deep learning neural network that you can study to increase your understanding of these neural networks. The book explains how, as a professional, you can introduce AI in your operations. You'll discover: - Python Data Types-Python User Input and Loops-Python Input()-Python Loops-Python Functions-Python Classes-Artificial Intelligence -Machine Learning-Deep Learning -Linear Regression -Artificial Intelligence in Business-AI in Business-AI in Customer Service-Self-Driving Cars-Generation of Texts-Predicting Earthquake and Cancer-The Future of Deep Learning-Artificial Neural Networks-Convolutional Neural Network-Implementation Using Keras-Deep Learning with Keras-Project Debater-IBM Watson-Ethical Implications of Deep Learning-Loss of Jobs-Racist Robots-Drawbacks of Deep LearningSo what are you waiting for? Get started today by clicking the Buy Now button!Are you interested in taking your deep learning knowledge to the next level? Then this is the book for you! Machine and deep learning are the future, and there's no getting away from that. So learning it now, and learning how to do it the right way will put you ahead of the crowd. Deep learning is all about understanding and learning about neural networks, and Python is the best computer programming language to do that with. Learning to program is not easy, but consistent practice is the key. Learning to program efficiently in Python and building deep learning neural networks becomes simple to do with practice and guidance.In this book, you will learn: -The basics of the Python programming language-All about variables, strings, classes, statements, dictionaries, functions, and more-What Artificial Intelligence is-How to build Deep Learning is-How to build a deep neural network with Keras-How to build a deep learning convolutional neural network-The practical applications of deep learning-The benefits and the drawbacks of deep learning-And so much more!Don't delay. Start your advanced deep learning journey today by clicking the Buy Now button! **Ultimate Step by Step Guide to Machine Learning Using Python** Daneyal Anis 2020-02-17 *Start your Data Science career using Python today!* Are you ready to start your new exciting career? Ready to crush your machine learning career goals? Are you overwhelmed with complexity of the books on this subject?Then let this breezy and fun little book on Python and machine learning models make you a data scientist in 7 days! First part of this book introduces Python basics including: 1) Data Structures like Pandas 2) Foundational libraries like Numpy, Seaborn and Scikit-Learn Second part of this book shows you how to build predictive machine learning models step by step using techniques such as: 1) Regression analysis 2) Decision tree analysis 3) Training and testing data models 4) And much more! After reading this book you will be able to: 1) Code in Python with confidence 2) Build new machine learning models from scratch 3) Know how to clean and prepare your data for analytics 4) Speak confidently about statistical analysis techniques Data Science was ranked the fast-growing field by LinkedIn and Data Scientist is one of the most highly sought after and lucrative careers in the world! If you are on the fence about making the leap to a new and lucrative career, this is the book for you! What sets this book apart from other books on the topic of Python and Machine learning: 1) Step by step code examples and explanation 2) Complex concepts explained visually 3) Real world applicability of the machine learning models introduced 4) Bonus free code samples that you can try yourself without any prior experience in Python! What do I need to get started? You will have a step by step action plan in place once you finish this book and finally feel that you, can master data science and machine learning and start lucrative and rewarding career! Ready to dive in to the exciting world of Python and Machine Learning? Then scroll up to the top and hit that BUY BUTTON!

Python Machine Learning John Code 2020-03-17 Are you new to machine learning and looking to eventually launch a career in Python? Do you want to learn how to do machine learning with Python but you have problems getting started? Machine learning is a subject that has quickly become popular in a wide range of domains such as Data Science, Artificial intelligence among others. The use of machine learning in these domains offers incredible opportunities. If you are just starting your career, this could just be the best decision you make. Have you been thinking of learning Python as your first programming language? Do you have data that you have generated and do not know where to start analyzing them? Are you interested in digesting your big data into meaningful information that will inform decision makers? Well, you have come to the right place! So many people think that they need to have expertise in math and programming for them to use Python at all. Trust me, you need zero-experience! All you need is interest and a strong motivation to learn all these things. You may be thinking to yourself "But why Python?" Well, there are so many reasons why Python is the best programming language to start with. In this book, you'll learn all the important topics that you need to know for you to implement machine learning with Python. Such topics you will meet include: An introduction and principles behind machine learning How to download, install Python, and get the best package for machine learning in Python. You'll load a dataset and understand its structure using data visualization and summaries. Getting dirty with Python The algorithms that constitute to machine learning The core foundations of data science, neural networks and deep learning The libraries you can never avoid And much more!! Python is a powerful interpreted language. Unlike other languages such as R, Python is a complete language and platform where you can apply both research and development production. Still, there are many modules and libraries which you can select from and generate different ways to perform each task. Are you ready to take upon the challenge? Good! Press the buy now button and get you copy of this book.

Mastering Deep Learning Fundamentals with Python Richard Wilson 2019-07-14 ★★Buy the Paperback Version of this Book and get the Kindle Book version for FREE ★★ Step into the fascinating world of data science... You to participate in the revolution that brings artificial intelligence back to the heart of our society, thanks to data scientists. Data science consists in translating problems of any other nature into quantitative modeling problems, solved by processing algorithms. This book, designed for anyone wishing to learn Deep Learning. This book presents the main techniques: deep neural networks, able to model all kinds of data, convolution networks, able to classify images, segment them and discover the objects or people who are there, recurring networks, it contains sample code so that the reader can easily test and run the programs. On the program: Deep learning Neural Networks and Deep Learning Deep Learning Parameters and Hyper-parameters Deep Neural Networks Layers Deep Learning Activation Functions Convolutional Neural Network Python Data Structures Best practices in Python and Zen of Python Installing Python Python These are some of the topics covered in this book:

fundamentals of deep learning fundamentals of probability fundamentals of statistics fundamentals of linear algebra introduction to machine learning and deep learning fundamentals of machine learning fundamentals of neural networks and deep learning deep learning parameters and hyper-parameters deep neural networks layers deep learning activation functions convolutional neural network Deep learning in practice (in jupyter notebooks) python data structures best practices in python and zen of python installing python The following are the objectives of this book: To help you understand deep learning in detail To help you know how to get started with deep learning in Python by setting up the coding environment. To help you transition from a deep learning Beginner to a Professional. To help you learn how to develop a complete and functional artificial neural network model in Python on your own. And more Get this book now to learn more about -- Deep learning in Python by setting up the coding environment.!

Deep Learning With Python Jason Brownlee 2016-05-13 Deep learning is the most interesting and powerful machine learning technique right now. Top deep learning libraries are available on the Python ecosystem like Theano and TensorFlow. Tap into their power in a few lines of code using Keras, the best-of-breed applied deep learning library. In this Ebook, learn exactly how to get started and apply deep learning to your own machine learning projects.

Artificial Intelligence with Python Prateek Joshi 2017-01-27 Build real-world Artificial Intelligence applications with Python to intelligently interact with the world around you About This Book Step into the amazing world of intelligent apps using this comprehensive guide Enter the world of Artificial Intelligence, explore it, and create your own applications Work through simple yet insightful examples that will get you up and running with Artificial Intelligence in no time Who This Book Is For This book is for Python developers who want to build real-world Artificial Intelligence applications. This book is friendly to Python beginners, but being familiar with Python would be useful to play around with the code. It will also be useful for experienced Python programmers who are looking to use Artificial Intelligence techniques in their existing technology stacks. What You Will Learn Realize different classification and regression techniques Understand the concept of clustering and how to use it to automatically segment data See how to build an intelligent recommender system Understand logic programming and how to use It Build automatic speech recognition systems Understand the basics of heuristic search and genetic programming Develop games using Artificial Intelligence Learn how reinforcement learning works Discover how to build intelligent applications centered on images, text, and time series data See how to use deep learning algorithms and build applications based on it In Detail Artificial Intelligence is becoming increasingly relevant in the modern world where everything is driven by technology and data. It is used extensively across many fields such as search engines, image recognition, robotics, finance, and so on. We will explore various real-world scenarios in this book and you'll learn about various algorithms that can be used to build Artificial Intelligence applications. During the course of this book, you will find out how to make informed decisions about what algorithms to use in a given context. Starting from the basics of Artificial Intelligence, you will learn how to develop various building blocks using different data mining techniques. You will see how to implement different algorithms to get the best possible results, and will understand how to apply them to real-world scenarios. If you want to add an intelligence layer to any application that's based on images, text, stock market, or some other form of data, this exciting book on Artificial Intelligence will definitely be your guide! Style and approach This highly practical book will show you how to implement Artificial Intelligence. The book provides multiple examples enabling you to create smart applications to meet the needs of your organization. In every chapter, we explain an algorithm, implement it, and then build a smart application. **Convolutional Neural Networks In Python** Frank Millstein 2020-07-06 Convolutional Neural Networks in Python This book covers the basics behind Convolutional Neural Networks by introducing you to this complex world of deep learning and artificial neural networks in a simple and easy to understand way. It is perfect for any beginner out there looking forward to learning more about this machine learning field. This book is all about how to use convolutional neural networks for various image, object and other common classification problems in Python. Here, we also take a deeper look into various Keras layer used for building CNNs we take a look at different activation functions and much more, which will eventually lead you to creating highly accurate models able of performing great task results on various image classification, object classification and other problems. Therefore, at the end of the book, you will have a better insight into this world, thus you will be more than prepared to deal with more complex and challenging tasks on your own. Here Is A Preview of What You'll Learn In This Book... Convolutional neural networks structure How convolutional neural networks actually work Convolutional neural networks applications The importance of convolution operator Different convolutional neural networks layers and their importance Arrangement of spatial parameters How and when to use stride and zero-padding Method of parameter sharing Matrix multiplication and its importance Pooling and dense layers Introducing non-linearity relu activation function How to train your convolutional neural network models using backpropagation How and why to apply dropout CNN model training process How to build a convolutional neural network Generating predictions and calculating loss functions How to train and evaluate your MNIST classifier How to build a simple image classification CNN And much, much more! Get this book NOW and learn more about Convolutional Neural Networks in Python!

Deep Learning with Python Alex Root 2019-09-06 Do you have some knowledge of Python coding and want to take it further? Interested in learning what Deep Learning is all about? This book offers you everything you need to learn what machine learning is and how to take it further with deep learning. A relatively new field in data science, programmers are only just starting to delve into the possibilities and the potential uses for deep learning but, as we head further into a digital world, a world of technology, this is one subject that is on the fast track. What You Will Learn: What machine learning is? An overview of supervised, unsupervised, and reinforcement learning How machine learning differs from deep learning? Why Python is the language to use? The basics of Keras What deep learning is? What neural networks are and how they work? All about loss functions Image processing Text data processing Word embeddings Real-world applications of deep learning And more I even added in a short glossary to help you understand some of the more common deep learning terms! This book is aimed at beginners and even if you don't have a lot of programming knowledge, you can still learn. Interested?Then hit that Buy Now button and start your Deep Learning journey on the right foot.

Python for Data Analysis Daniel Howard 2019-11-24 Are you searching for a professional guide for learning data analysis from scratch? In this crash course, you will find everything you need to become proficient in this discipline, regardless of your previous experience. Starting from the basics, Daniel Howard will teach you the most up-to-date techniques to manipulate and process data, using Python libraries such us NumPy, Pandas and Matplotlib. Python is one of the most famous programming languages and it is recognized as the most effective tool for machine learning and data science, thanks to its large number of dedicated resources. Since it is designed for everyone, you will be amazed by the large number of programs that you will be able to create in no time, even as a beginner. Here is a preview of what you will learn: What data analysis is, and why it is fundamental in hundreds of business and technological applications Effective computational methods to manipulate large amounts of data Data visualization tools and techniques How to develop a successful career in one of the best paid sectors Real-world applications of machine learning and artificial intelligence What predictive modeling is How to build neural networks with Python If you are a student or a professional looking for more technical skills, or if you are simply curious about data analytics and its powerful applications, then click the BUY button and get your copy!

Python Machine Learning Railey Brandon 2019-04-25 ☆★Have you come across the terms machine learning and neural networks in most articles you have recently read? Do you also want to learn how to build a machine learning model that will answer your questions within a blink of your eyes?☆★ If you responded yes to any of the above questions, you have come to the right place. Machine learning is an incredibly dense topic. It's hard to imagine condensing it into an easily readable and digestible format. However, this book aims to do exactly that. Machine learning and artificial intelligence have been used in different machines and applications to improve the user's experience. One can also use machine learning to make data analysis and predicting the output for some data sets easy. All you need to do is choose the right algorithm, train the model and test the model before you apply it on any real-world tool. It is that simple isn't it? ★★Apart from this, you will also learn more about★★ ◆ The Different Types Of Learning Algorithm That You Can Expect To Encounter ◆ The Numerous Applications Of Machine Learning And Deep Learning ◆ The Best Practices For Picking Up Neural Networks ◆ What Are The Best Languages And Libraries To Work With ◆ The Various Problems That You Can Solve With Machine Learning Algorithms ◆ And much more... Well, you can do it faster if you use Python. This language has made it easy for any user, even an amateur, to build a strong machine learning model since it has numerous directories and libraries that make it easy for one to build a model. Do you want to know how to build a machine learning model and a neural network? So, what are you waiting for? Grab a copy of this book now!

Ultimate Step by Step Guide to Deep Learning Using Python Daneyal Anis 2020-07-19 *Start your Data Science career using Python today!*Are you ready to start your new exciting career? Ready to master artificial intelligence and deep learning concepts?Are you overwhelmed with complexity of the books on this subject?Then let this breezy and fun little book on Python, Machine Learning and Deep Learning models make you a Data Scientist in 7 days!This book continues from where the first book in the series, Ultimate Step by Step Guide to Machine Learning Using Python, left of. In the first book you were introduced to Python concepts such as: -Data Structures like Pandas -Foundational libraries like Numpy, Seaborn and Scikit-Learn-Regression analysis-Classification-Clustering-Association Learning- Dimension ReductionThis book builds on those concepts to expand on Machine Learning algorithms like: -Linear and Logistic regression-Decision tree-Support vector machines (SVM)After that, this book takes you on a journey into Deep Learning and Neural Networks with important concepts and libraries like: -Convolutional and Recurrent Neural Networks-TensorFlow-Keras-PyTorch-Keras-Apache MXNet-Microsoft Cognitive Toolkit (CNTK)The final part of the book covers all foundational concepts that are required for Amazon Web Services (AWS) Certified Machine Learning Specialization by explaining how to deploy your models at scale on Cloud technologies. While AWS is used in the book for illustrative purposes, Microsoft Azure and Google Cloud are also introduced as alternative cloud technologies. After reading this book you will be able to: -Code in Python with confidence-Build new machine learning and deep learning models from scratch-Know how to clean and prepare your data for analytics-Speak confidently about statistical analysis techniquesData Science was ranked the fast-growing field by LinkedIn and Data Scientist is one of the most highly sought after and lucrative careers in the world!If you are on the fence about making the leap to a new and lucrative career, this is the book for you!What sets this book apart from other books on the topic of Python and Machine learning: -Step by step code examples and explanation-Complex concepts explained visually-Real world applicability of the machine learning and deep learning models introducedWhat do I need to get started?You will have a step by step action plan in place once you finish this book and finally feel that you, can master data science and artificial intelligence and start a lucrative and rewarding career! Ready to dive in to the exciting world of Python and Deep Learning?Then scroll up to the top and hit that BUY BUTTON!

Deep Learning with Keras Frank Millstein 2020-07-07 Deep Learning with Keras This book will introduce you to various supervised and unsupervised deep learning algorithms like the multilayer perceptron, linear regression and other more advanced deep convolutional and recurrent neural networks. You will also learn about image processing, handwritten recognition, object recognition and much more. Furthermore, you will get familiar with recurrent neural networks like LSTM and GAN as you explore processing sequence data like time series, text, and audio. The book will definitely be your best companion on this great deep learning journey with Keras introducing you to the basics you need to know in order to take next steps and learn more advanced deep neural networks. Here Is A Preview of What You'll Learn Here... The difference between deep learning and machine learning Deep neural networks Convolutional neural networks Building deep learning models with Keras Multi-layer perceptron neural network models Activation functions Handwritten recognition using MNIST Solving multi-class classification problems Recurrent neural networks and sequence classification And much more... Get this book NOW and learn more about Deep Learning with Keras!

Deep Learning with Pytorch Jerry N. P 2019-01-29 This book is an exploration of deep learning in Python using PyTorch. The author guides you on how to create neural network models using PyTorch in Python. You will know the initial steps of getting started with PyTorch in Python. This involves installing PyTorch and writing your first code. PyTorch works using the concept of graphs. The author helps you know how build neural network graphs in PyTorch. Deep learning in Python with PyTorch simply involves the creation of neural network models. The author helps you understand how to create neural network models with TensorFlow. You are guided on how to train such models with data of various types. Examples of such data include images and text. The process of loading your own data into PyTorch for training neural network models has also been discussed. You will also know how to use the inbuilt data for training your neural network models. This book will help you to understand: - Why PyTorch for Deep Learning? - Getting Started with PyTorch - Building a Neural Network - Loading and Processing Data - Convolutional Neural Networks - Transfer Learning - Developing Distributed Applications - Word Embeddings - Moving a Model from PyTorch to Caffe2 - Custom C Extensions - Neural Transfer with PyTorch Tags: pytorch deep learning, python programming, python, python data science handbook, neural network python, tensorflow python, tensorflow for deep learning, python code programming.

Practical Convolutional Neural Networks Mohit Sewak 2018-02-27 This book helps you master CNN, from the basics to the most advanced concepts in CNN such as GANs, instance classification and attention mechanism for vision models and more. You will implement advanced CNN models using complex image and video datasets. By the end of the book you will learn CNN's best practices to implement smart ConvNet ...

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Python Programming for Beginners William Wizner 2020-07-15 The latest comprehensive guide for newbies and Python lovers! **Deep Learning and Neural Networks Using Python - Keras** Abhilash Nelson 2019 Deep learning and data science using a Python and Keras library - A complete guide to take you from a beginner to

professional About This Video Learn data science using a Python and Keras library Learn convolutional neural networks using Python In Detail The world has been obsessed with the terms "machine learning" and "deep learning" recently. We use these technologies every day with or without our knowledge through Google suggestions, translations, ads, movie recommendations, friend suggestions, and sales and customer experiences. There are tons of other applications too! No wonder that deep learning and machine learning specialists, along with data science practitioners, are the most sought-after talent in the technology world. However, it's a common misconception that you need to study lots of mathematics, statistics, and complex algorithms for learning these technologies. It's like believing that you must learn the working of a combustion engine before you learn how to drive a car. A basic know-how of the internal working of the engine is of course an added advantage, but it's not mandatory.

Similarly, this course is a perfect balance between learning the basic deep learning concepts and implementing the built-in deep learning classes and functions from the Keras library using the Python programming language. These classes, functions and APIs are just like the control pedals of a car engine, which you can use to build an efficient deep-learning model. This is a basic-to-advanced crash course in deep learning, neural networks, and convolutional neural networks using Keras and Python. It'll help you skill up to meet the demand of the tech world and skyrocket your career prospects. Downloading the example code for this course: You can download the example code files for this course on GitHub at the following link: <https://github.com/PacktPublishing/Deep-Learning-and-Neural-Networks-using-Python--Keras-The-Complete-Beginners-Guide> . If you require support please email: customer@packt.com.