Practical Network Automation A Beginners Guide To Automating And Optimizing Networks Using Python Ansible And More 2nd Edition

Practical Network Automation-Abhishek Ratan 2018-12-26 Network automation is the process of efficiently automating the management and functionality of networks. Through practical use-cases and examples, this book introduces you to the popular tools such as Python, Ansible, Chef and more, that are used to automate a network.

Automate the Boring Stuff with Python-Al Sweigart 2015-04-14 If you’ve ever spent hours renaming files or updating hundreds of spreadsheet cells, you know how tedious tasks like these can be. But what if you could have your computer do them for you? In Automate the Boring Stuff with Python, you’ll learn how to use Python to write programs that do in minutes what would take you hours to do by hand—no prior programming experience required. Once you’ve mastered the basics of programming, you’ll create Python programs that effortlessly perform useful and impressive feats of automation to: Search for text in a file or across multiple filesCreate, update, move, and rename files and foldersSearch the Web and download online contentUpdate and format data in Excel spreadsheets of any sizeSplit, merge, watermark, and encrypt PDFsSend reminder emails and text notificationsFill out online forms Step-by-step instructions walk you through each program, and practice projects at the end of each chapter challenge you to improve those programs and use your newfound skills to automate similar tasks. Don’t spend your time doing work a well-trained monkey could do. Even if you’ve never written a line of code, you can make your computer do the grunt work. Learn how in Automate the Boring Stuff with Python. Note: The programs in this book are written to run on Python 3.

Python Scripting for Network Engineers-Wajid Hassan 2019-01-02 Today Network Automation can be used for provisioning, configurations, identifying rogue devices, mitigating security attacks, compliance, audits, capacity planning and scores of other network deployment activities. It has helped in enhancing network visibility and has empowered the network engineers to make faster, smarter network decisions, optimize uptime and performance, enhance security, and enable innovation instead of spending endless cycles in managing the network.This book has been written for Network Engineers and Network Managers who are starting to explore network automation. This book is a good starting point for Network Engineers who learnt Programming in their earlier academic or work career and haven't used it in a long time or those Network Engineers who are learning Programming and Automation for the first time. The book has example Python Scripts which readers can practice and improve their job potential and make the networks more resilient and scalable.

Neural Network for Beginners-Sebastian Klaas 2021-08-24 KEY FEATURES ● Understand applications like reinforcement learning, automatic driving and image generation. ● Understand neural networks accompanied with figures and charts. ● Learn about determining coefficients and initial values of weights. DESCRIPTION Deep learning helps you solve issues related to data problems as it has a vast array of mathematical algorithms and has capacity to detect patterns. This book starts with a quick view of deep learning in Python which would include definition, features and applications. You would be learning about perceptron, neural networks, Backpropagation. This book would also give you a clear insight of how to use Numpy and Matplotlib in deep learning models. By the end of the book, you’ll have the knowledge to apply the relevant technologies in deep learning. WHAT YOU WILL LEARN ● To develop deep learning applications, use Python with few outside inputs. ● Study several ideas of profound learning and neural networks ● Learn how to
determine coefficients of learning and weight values ● Explore applications such as automation, image generation and reinforcement learning ● Implement trends like batch Normalisation, dropout, and Adam WHO THIS BOOK IS FOR Deep Learning from the Basics is for data scientists, data analysts and developers who wish to build efficient solutions by applying deep learning techniques. Individuals who would want a better grasp of technology and an overview. You should have a workable Python knowledge is a required. NumPy knowledge and pandas will be an advantage, but that’s completely optional. TABLE OF CONTENTS 1. Python Introduction 2. Perceptron in Depth 3. Neural Networks 4. Training Neural Network 5. Backpropagation 6. Neural Network Training Techniques 7. CNN 8. Deep Learning Apache JMeter-Emily H. Halili 2008 This book is focussed on learning and understanding JMeter. It starts with a basic introduction and installation, followed by using JMeter to test web applications. It proceeds to show how to use JMeter to perform load testing and also to test the functional behavior of the target web application. The discussion continues to include testing servers other than web application servers, and demonstrates the use of some of JMeter's built-in functions. This book aims to give readers an introductory view of JMeter, and gives a brief and realistic overview to those researching for an ideal testing tool to use in testing projects. The book is written in a straightforward, clear way, with plenty of step-by-step instructions and illustrative screenshots. The ideal readers or users of this book are experienced or novice testers who have been testing manually and now would like to automate their tests. Those testers who are already automating their testing using other tools or testing software may also want to use this book as they look for alternatives. This book would also be a good point for test Managers/Leaders to start doing research on the test automation tool that may best suit their testing needs and of course, their budget JMeter's target audience is the testing community, which is generally not the hangout of developers or technical people. Almost anything one would like to do in HTTP testing will be supported by JMeter without requiring any programming. The user need not have much technical knowledge to work with JMeter. It has a simple-to-use and intuitive drag-and-drop style GUI that helps any non-technical user to get started.

Securing Network Infrastructure-Sairam Jetty 2019-03-26 Plug the gaps in your network’s infrastructure with resilient network security models Key Features Develop a cost-effective and end-to-end vulnerability management program Explore best practices for vulnerability scanning and risk assessment Understand and implement network enumeration with Nessus and Network Mapper (Nmap) Book Description Digitization drives technology today, which is why it’s so important for organizations to design security mechanisms for their network infrastructures. Analyzing vulnerabilities is one of the best ways to secure your network infrastructure. This Learning Path begins by introducing you to the various concepts of network security assessment, workflows, and architectures. You will learn to employ open source tools to perform both active and passive network scanning and use these results to analyze and design a threat model for network security. With a firm understanding of the basics, you will then explore how to use Nessus and Nmap to scan your network for vulnerabilities and open ports and gain back door entry into a network. As you progress through the chapters, you will gain insights into how to carry out various key scanning tasks, including firewall detection, OS detection, and access management to detect vulnerabilities in your network. By the end of this Learning Path, you will be familiar with the tools you need for network scanning and techniques for vulnerability scanning and network protection. This Learning Path includes content from the following Packt books: Network Scanning Cookbook by Sairam Jetty Network Vulnerability Assessment by Sagar Rahalkar What you will learn Explore various standards and frameworks for vulnerability assessments and penetration testing Gain insight into vulnerability scoring and reporting Discover the importance of patching and security hardening Develop metrics to measure the success of a vulnerability management program Perform configuration audits for various platforms using Nessus Write custom Nessus and Nmap scripts on your own Install and configure Nmap and Nessus in your network infrastructure Perform host discovery to identify network devices Who this book is for This Learning Path is designed for security analysts, threat
analysts, and security professionals responsible for developing a network threat model for an organization. Professionals who want to be part of a vulnerability management team and implement an end-to-end robust vulnerability management program will also find this Learning Path useful.

AutoIT Scripting For Beginners-Rajan 2015-08-15 AutoIT is one of the best window application automation tool available in the market as an open source. Using AutoIT you can automate any window application by its simple scripting. What this book offers... This book doesn't make any assumptions about your background programming knowledge. You don't need any prior knowledge to benefit from this book. You will be guided step by step starting from how to install AutoIT, how to record and playback, where to write the script, how to compile the script, how to make it as executable file, how to identify the window object, how to automate any window application using a logical and systematic approach. Complex concepts are broken down into simple steps to ensure that you can easily master the AutoIT scripting even if you have never coded before. Examples are carefully chosen to illustrate all concepts. In addition, outputs for all examples are provided immediately so you do not have to wait till you have access to your computer to test the examples.

What you’ll learn: • Introduction to AutoIT • Record and Play back • AutoIT V3 Window Info Tool • Scintilla Editor • Declaring Variables • Operators • Selection statements • Iteration statements • Jump statements • Declaring and calling Functions • String Functions • Windows functions • Calculator Automation

精通 Go 程式設計(電子書)-Alan A. A. Donovan, Brian W. Kernighan 2016-08-31 本書是學習Go語言的權威資源,它展現如何撰寫清楚且正確的Go程式以解決實務上的問題。閱讀此書無需Go或其他特定語言的經驗,JavaScript、Ruby、Python、Java、C++等程式設計師都能夠輕鬆上手。 

*第一章討論Go的基本概念,介紹檔案輸出入、文字處理、簡單圖形、與網路用戶端以及伺服器等。*前幾個章節涵蓋了Go程式的結構元素:語法、流程控制、資料型別、與組織程式套件、檔案及函式。書中範例展示標準函式庫的套件並示範如何自行建構套件。其後的章節則深入解釋套件機制、如何使用Go工具建構、測試與維護專案。*方法與介面相關章節介紹Go獨特的物件導向程式設計方式,其方法可以在間接滿足條件的型別與介面上宣告。這些章節以實際的範例解釋了封裝、組合與可替換性的重要原則。*兩個與並行性有關的篇章深入此越顯重要的主題。首先是goroutine與channel基本機制的討論,描述Go最為人稱道的交談循序程式。其次是使用共用變數的傳統並行性。這些章節為首次遭遇並行性的程式設計師提供堅實的基礎。

*最後兩章探索Go的低階功能,一個是使用reflection的元編程藝術,另一個是如何使用unsafe套件在特殊情況下跳脫型別系統以及使用cgo工具建構Go的C函式庫連結。*書中數百個有趣與實用的Go範例程式涵蓋整個語言最重要的套件與各種應用。每一章都有練習題以測試你的理解並探索擴充與替代方案。原始碼可從http://gopl.io/下載並能使用go get命令取得、建構、與安裝。

Hands-On Automated Machine Learning-Sibanjan Das 2018-04-25 Automate data and model pipelines for faster machine learning applications Key Features Build automated modules for different machine learning components Understand each component of a machine learning pipeline in depth Learn to use different open source AutoML and feature engineering platforms Book Description AutoML is designed to automate parts of Machine Learning. Readily available AutoML tools are making data science practitioners' work easy and are received well in the advanced analytics community. Automated Machine Learning covers the necessary foundation needed to create automated machine learning modules and helps you get up to speed with them in the most practical way possible. In this book, you’ll learn how to automate different tasks in the machine learning pipeline such as data preprocessing, feature selection, model training, model optimization, and much more. In addition to this, it demonstrates how you can use the available automation libraries, such as auto-sklearn and MLBox, and create and extend your own custom AutoML components for Machine Learning. By the end of this book, you will have a clearer understanding of the different aspects of automated Machine Learning, and you'll be able to incorporate automation tasks using practical datasets. You can leverage your learning from this book to implement Machine Learning in your projects and get a step closer to winning various machine learning competitions.

What you will learn
- Understand the fundamentals of Automated Machine Learning systems
- Explore auto-sklearn and MLBox for AutoML tasks
- Automate your preprocessing methods along with feature transformation
- Enhance feature selection and generation using the Python stack
- Assemble individual components of ML into a complete AutoML framework
- Demystify hyperparameter tuning to optimize your ML models
- Dive into Machine Learning concepts such as neural networks and autoencoders

Who this book is for
If you're a budding data scientist, data analyst, or Machine Learning enthusiast and are new to the concept of automated machine learning, this book is ideal for you. You'll also find this
book useful if you're an ML engineer or data professional interested in developing quick machine learning pipelines for your projects. Prior exposure to Python programming will help you get the best out of this book.

Innovations in Software-Defined Networking and Network Functions Virtualization-Dumka, Ankur 2018-02-16 The advancement of technology is a standard of modern daily life, whether it be the release of a new cellphone, computer, or a self-driving car. Due to this constant advancement, the networks on which these technologies operate must advance as well. Innovations in Software-Defined Networking and Network Functions Virtualization is a critical scholarly publication that observes the advances made in network infrastructure through achieving cost efficacy while maintaining maximum flexibility for the formation and operation of these networks. Featuring coverage on a broad selection of topics, such as software-defined storage, openflow controller, and storage virtualization, this publication is geared toward professionals, computer engineers, academicians, students, and researchers seeking current and relevant research on the advancements made to network infrastructures.

Springer Handbook of Optical Networks-Biswanath Mukherjee 2020 This handbook is an authoritative, comprehensive reference on optical networks, the backbone of today's communication and information society. The book reviews the many underlying technologies that enable the global optical communications infrastructure, but also explains current research trends targeted towards continued capacity scaling and enhanced networking flexibility in support of an unabated traffic growth fueled by ever-emerging new applications. The book is divided into four parts: Optical Subsystems for Transmission and Switching, Core Networks, Datacenter and Super-Computer Networking, and Optical Access and Wireless Networks. Each chapter is written by world-renown experts that represent academia, industry, and international government and regulatory agencies. Every chapter provides a complete picture of its field, from entry-level information to a snapshot of the respective state-of-the-art technologies to emerging research trends, providing something useful for the novice who wants to get familiar with the field to the expert who wants to get a concise view of future trends.

Python for Absolute Beginners-Andrew Warner 2020-07-20 Did you know that Python is one of the most versatile high-level programming languages ever developed? This book enables you to learn programming concepts and acquire advanced skills in Python through practical examples. It serves as a concise "how-to" code guide for various real-life scenarios, such as: Automation: If you are bored doing the same set of tasks every day, you can use Python to automate most of them. File Operations: Use Python to interact with any file type and perform various operations. Data Analysis: Data science is the future, and Python enables you to parse and analyze large data sets efficiently. Image Processing: Python can help you perform complex processes on images, an integral part of most security and entertainment systems. GUI Interfacing: Take control of your computer accessories and go even further with full-blown hardware automation. This book is equally beneficial for you no matter if you are a programming enthusiast or professional. You are going to learn many standard and external Python libraries in it, including: Scrapy Xlrd Json Csv Numpy Lol, apologies. What makes this Python programming book unique? Well, for one, it can guide you through the most critical phase of programming, i.e., Python setup. A lot of sources don't usually focus on this important aspect, which leads to frustration and confusion at an early stage. This book also provides flowcharts and other visuals to convey a particular concept. More precisely, this book will give you: A solid foundation in Python programming. Simple explanations of code, broken down into easy to follow steps. How you stand to benefit by learning Python. How to leverage the power of python to handle a variety of machine learning algorithms. A carefully organized, step-by-step guide, so easy that even your grandma could do it. At the end of every chapter, you’ll find a number of exercise questions that will help you cultivate a culture of curiosity and exploration. Are you ready to delve into the world of Python programming? Buy this book today!
Beginning Sensor Networks with XBee, Raspberry Pi, and Arduino-Charles Bell 2020-06-25 Build sensor networks with Python and MicroPython using XBee radio modules, Raspberry Pi, and Arduino boards. This revised and updated edition will put all of these together to form a sensor network, and show you how to turn your Raspberry Pi into a MySQL database server to store your sensor data! You'll review the different types of sensors and sensor networks, along with new technology, including how to build a simple XBee network. You'll then walk through building an sensor nodes on the XBee, Raspberry Pi, and Arduino, and also learn how to collect data from multiple sensor nodes. The book also explores different ways to store sensor data, including writing to an SD card, sending data to the cloud, and setting up a Raspberry Pi MySQL server to host your data. You'll even learn how to connect to and interact with a MySQL database server directly from an Arduino! Finally you'll see how to put it all together by connecting your sensor nodes to your new Raspberry Pi database server. If you want to see how well XBee, Raspberry Pi, and Arduino can get along, especially to create a sensor network, then Beginning Sensor Networks with XBee, Raspberry Pi, and Arduino is just the book you need. What You'll Learn Code your sensor nodes with Python and MicroPython Work with new XBee 3 modules Host your data on Raspberry Pi Get started with MySQL Create sophisticated sensor networks Who This Book Is For Those interested in building or experimenting with sensor networks and IoT solutions, including those with little or no programming experience. A secondary target includes readers interested in using XBee modules with Raspberry Pi and Arduino, those interested in controlling XBee modules with MicroPython.

Automate the Boring Stuff with Python, 2nd Edition-Al Sweigart 2019-11-12 In this second edition of Automate the Boring Stuff with Python, you’ll learn the basics of programming in Python, the fastest growing programming language today, before moving on to create Python programs that effortlessly perform useful and impressive feats of automation. This updated edition is full of step-by-step instructions that walk through each programme. Practice projects at the end of each chapter challenge you to improve those programmes and use your newfound skills to automate similar tasks.

PYTHON FOR BEGINNERS-Mark Matthes 2021-05-06 Are you new to software development? Are you curious about learning what artificial intelligence is? Do you want to master the Phyton programming language? Do You want to Learn Computers for Beginners? Well, this book is your best choice! There may be a lot of different languages that you can work with when it comes to the coding that you would like to work with, but none are going to provide you with the benefits that you are working with. This language is so popular and used so often that there are a few different operating systems that already have some version of Python found on them for you to use. This can make it easier to get some of the coding done that you would like, and will ensure that you will get the best benefits out of it in no time. ★★This book covers-★★ ★ What Is Python and His History and Why Learn Python ★ Getting Started with Python ★ Variables and Operators ★ Basic Operators ★ Data Types in Python ★ Functions and Modules ★ Defining Your Functions ★ Working with Your Module ★ Working with Files ★ Using A for Loop to Write and Read Text Files And so much more!!

The Python language is more natural to read: If you take a look through some of the codes that we have later on in this guidebook, you will find that this is an easy task to read through some of the different parts of the law. Even if you have not been able to work with this language before, you will still be able to look at some of the systems and notice that you recognize the parts as well. The program is open source. This means that you won’t have to worry about someone taking over the code and ruining it. It also means that the original Python is free and available to anyone who wants to download it. This guidebook is going to take the Python language to the next level and look at some of the more advanced features that you can enjoy with this kind of writing, but when you look at some of the codes, even some of these that are more advanced than what you may have worked with in the past, you will find that it is easy to write some codes that have a lot of power, and even easy to complete your projects. If you are curious about this world, THEN CLICK TO GET YOUR COPY NOW!
Python Machine Learning-Anderson Coen 2020-05-25 Python Machine Learning Would you want to learn how to utilize Python to produce machine learning models, but you think it would be too complicated for you? Or maybe you like to automate simple stuff with your PC, but you do not know how to do it. As a novice, you might think programming is complicated. Understanding artificial intelligence coding could take several months. Not to mention that the chance of giving up before perfecting it could be high. Therefore, you could think of employing a professional developer to shorten the time if you have time to develop. That might look like a great solution, but it is surely very costly. You still have pay for the developer if he doesn't do the proper job you want. You know the best solution for this? The perfect solution is to follow a complete programming manual with hands-on projects as well as practical exercises. This book is structured as a course with six chapters. Inside the book, you will be able to go through a first section in which basic and fundamental notions of deep learning are mention, to get to the next chapters made to help you learn advanced coding insights needed to build training data sets for the development of successful machine learning models. In detail, you will learn: The Fundamentals of Machine Learning Machine-Learning Systems An Overview of Python for Machine Learning Understanding Python Libraries for Machine Learning Introducing Neural Networks and Deep Learning Practical Data Management What makes this book different? The majority of books available on the market take a brief look into machine learning, presenting some of the subjects but never going deep. This book is not one of those. Even if you are totally new to programming in 2020 or you're simply looking to widen your abilities as a programmer, this book is perfect for you! Well, stress no more! Buy this book and also learn all... and DOWNLOAD IT NOW!

Python Programming-Daniel O'Reilly 2020-11-06 Would You Like to Know How to Automate Boring Stuff Quickly? Discover the Easiest Way to Learn Everything About Python and Machine Learning! Are you ready to embark on a great journey through the incredible world of Python and data science? If you are reading this, you probably have a keen interest in programming and computer science. You like to know how things work, and you want to make them work as efficiently as possible, right? If so, then Python is the perfect programming language for you to learn! Would you like to: Learn how programming in Python works? Learn to automate tasks with Python? Bring your ideas to life faster and monetize them easily? But you: Have no prior knowledge about Python? Are a little bit afraid because it seems complicated? Well, if the answer to any question is “yes,” then the solution you are looking for is right in front of you. With this incredible bundle in your hands, you

Practical UNIX-Steve Moritsugu 2000 A guide to the operating system's practical applications covers listing, finding, displaying, printing, security, editing, Emacs, and writing Bourne Shell Scripts and Perl programs

Python Machine Learning-Anderson Coen 2020-05-25 Python Machine Learning Would you want to learn how to utilize Python to produce machine learning models, but you think it would be too complicated for you? Or maybe you like to automate simple stuff with your PC, but you do not know how to do it. As a novice, you might think programming is complicated. Understanding artificial intelligence coding could take several months. Not to mention that the chance of giving up before perfecting it could be high. Therefore, you could think of employing a professional developer to shorten the time if you have time to develop. That might look like a great solution, but it is surely very costly. You still have pay for the developer if he doesn't do the proper job you want. You know the best solution for this? The perfect solution is to follow a complete programming manual with hands-on projects as well as practical exercises. This book is structured as a course with six chapters. Inside the book, you will be able to go through a first section in which basic and fundamental notions of deep learning are mention, to get to the next chapters made to help you learn advanced coding insights needed to build training data sets for the development of successful machine learning models. In detail, you will learn: The Fundamentals of Machine Learning Machine-Learning Systems An Overview of Python for Machine Learning Understanding Python Libraries for Machine Learning Introducing Neural Networks and Deep Learning Practical Data Management What makes this book different? The majority of books available on the market take a brief look into machine learning, presenting some of the subjects but never going deep. This book is not one of those. Even if you are totally new to programming in 2020 or you’re simply looking to widen your abilities as a programmer, this book is perfect for you! Well, stress no more! Buy this book and also learn all... and DOWNLOAD IT NOW!

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will go from beginner to pro in no time. The guides found inside this bundle are designed explicitly for people with little or no prior knowledge about Python programming. Every manual is written in a step-by-step and easy to digest manner so that you can understand Python without any trouble. Here's what this bundle about Python programming and data science can offer you: Basics of programming with Python: A comprehensive guide on how to get everything up and running. Essential tools guide: Learn how to use the best tools that are available for programming with Python. Programming made easy: Quick and easy way to learn how to make amazing and useful programs. Mastering the art of programming: Find out how to go from beginner to pro in no time with unique coding methods. Practical techniques and exercises: Put your knowledge to test and bring your ideas to life in no time. It doesn't matter if you are a beginner or you have never coded before; this guide will slowly ease you into the world of Python and data science. While most of the other similar books focus purely on theory and complicated concepts, these guides focus on a more practical approach to learning Python and data science. First of all, you'll learn basic programming concepts, such as variables, lists, classes, and loops. Then you will practice clean code writing and how to test your code safely. After that, you'll be able to put your knowledge to the test with some practical projects. Here is what else this bundle will show you: The basics of data types, variables, and structures How to properly define the data type of data structure Suitable types of operations and functions for data structuring Methods and applications of data analysis The basics of neural networks and how to create one Use of algorithm and models in data science Using data for prediction and deep learning The best thing about Python is that it's easy to learn and even easier to get up and running. By using tools like Django, for example, you can quickly bring your ideas and creations to life and start monetizing them in no time. The second best thing about learning how to program in Python is the advantage you'll have when you start learning other programming languages-after you master Python, learning different programming languages will be a piece of cake. If you want to conquer the Python programming language in no time, all you have to do is take these guides in your hands and follow the step-by-step instructions. So what are you waiting for? Scroll up, click on "Buy Now with 1-Click", and Get Your Copy Now!

Autotools, 2nd Edition-John Calcote 2019-11-05 Autotools is the first book to offer programmers a tutorial-based guide to the GNU build system. The new and improved second edition of Autotools includes five new chapters on PkgConfig, unit testing with Autotest, internationalising with GNU, the portability of gnulib, and using Autotools with Windows. Leave the guesswork behind, and master the Autotools build system with Autotools!

Practical Deep Learning for Cloud, Mobile, and Edge-Anirudh Koul 2019-10-14 Whether you’re a software engineer aspiring to enter the world of deep learning, a veteran data scientist, or a hobbyist with a simple dream of making the next viral AI app, you might have wondered where to begin. This step-by-step guide teaches you how to build practical deep learning applications for the cloud, mobile, browsers, and edge devices using a hands-on approach. Relying on years of industry experience transforming deep learning research into award-winning applications, Anirudh Koul, Siddha Ganju, and Meher Kasam guide you through the process of converting an idea into something that people in the real world can use. Train, tune, and deploy computer vision models with Keras, TensorFlow, Core ML, and TensorFlow Lite Develop AI for a range of devices including Raspberry Pi, Jetson Nano, and Google Coral Explore fun projects, from Silicon Valley’s Not Hotdog app to 40+ industry case studies Simulate an autonomous car in a video game environment and build a miniature version with reinforcement learning Use transfer learning to train models in minutes Discover 50+ practical tips for maximizing model accuracy and speed, debugging, and scaling to millions of users

Python Machine Learning-Andrew Park 2021-04-27 55% OFF for Bookstores! NOW at $12.14 instead of $26.97! LAST DAYS! Do you want to learn how to design and master different Machine Learning algorithms quickly and easily? Your Customers Will Love This Amazing Guide! Today, we live in the era of Artificial Intelligence. Self-driving cars, customized product recommendations, real-time pricing, speech and facial recognition are just a few examples proving this truth. Also, think
about medical diagnostics or automation of mundane and repetitive labor tasks; all these highlight the fact that we live in interesting times. From research topics to projects and applications in different stages of production, there is a lot going on in the world of Machine Learning. Machines and automation represent a huge part of our daily life. They are becoming part of our experience and existence. This is Machine Learning. Artificial Intelligence is currently one of the most thriving fields any programmer would wish to delve into, and for a good reason: this is the future! Simply put, Machine Learning is about teaching machines to think and make decisions as we would. The difference between the way machines learn and the way we do is that while for the most part we learn from experiences, machines learn from data. Starting from scratch, Python Machine Learning explains how this happens, how machines build their experience and compounding knowledge. Data forms the core of Machine Learning because within data lie truths whose depths exceed our imagination. The computations machines can perform on data are incredible, beyond anything a human brain could do. Once we introduce data to a machine learning model, we must create an environment where we update the data stream frequently. This builds the machine's learning ability. The more data Machine Learning models are exposed to, the easier it is for these models to expand their potential. Some of the topics that we will discuss inside include: What is Machine Learning and how it is applied in real-world situations Understanding the differences between Machine Learning, Deep Learning, and Artificial Intelligence Supervised learning, unsupervised learning, and semi-supervised learning The place of Regression techniques in Machine Learning, including Linear Regression in Python Machine learning training models How to use Lists and Modules in Python The 12 essential libraries for Machine Learning in Python What is the Tensorflow library Artificial Neural Networks And Much More! While most books only focus on widespread details without going deeper into the different models and techniques, Python Machine Learning explains how to master the concepts of Machine Learning technology and helps you to understand how researchers are breaking the boundaries of Data Science to mimic human intelligence in machines using various Machine Learning algorithms. Even if some concepts of Machine Learning algorithms can appear complex to most computer programming beginners, this book takes the time to explain them in a simple and concise way. Would You Like To Know More? Buy It NOW And Let Your Customers Get Addicted To This Amazing Book!

Practical MATLAB Basics for Engineers-Misza Kalechman 2018-10-08 A comprehensive and accessible primer, this tutorial immerses engineers and engineering students in the essential technical skills that will allow them to put Matlab® to immediate use. The book covers concepts such as: functions, algebra, geometry, arrays, vectors, matrices, trigonometry, graphs, pre-calculus and calculus. It then delves into the Matlab language, covering syntax rules, notation, operations, computational programming, and general problem solving in the areas of applied mathematics and general physics. This knowledge can be used to explore the basic applications that are detailed in Misza Kalechman’s companion volume, Practical Matlab Applications for Engineers (cat no. 47760).

Advances in Computers-Veljko Milutinovic 2020-01-10 Advances in Computers, Volume 116, presents innovations in computer hardware, software, theory, design, and applications, with this updated volume including new chapters on Teaching Graduate Students How to Review Research Articles and How to Respond to Reviewer Comments, ALGATOR - An Automatic Algorithm Evaluation System, Graph Grammar Induction, Asymmetric Windows in Digital Signal Processing, Intelligent Agents in Games: Review With an Open-Source Tool, Using Clickstream Data to Enhance Reverse Engineering of Web Applications, and more. Contains novel subject matter that is relevant to computer science Includes the expertise of contributing authors Presents an easy to comprehend writing style

Industrial Network Basics-Gary Anderson 2014-06-15 Industrial Network Basics discusses how networks actually work but with an emphasis on industrial networking protocols and methods. Many of the most common and well known fieldbus applications are discussed, as well as the industrial Ethernet protocols typically used in motion and process control solutions. Industrial Ethernet, together with fieldbus network media, provide hybrid network topologies that are used in many
machine and process control applications.

Beginning REALbasic-Jerry Lee Jr. Ford 2008-11-01 REALbasic is a powerful, easy-to-learn programming language, allowing almost anyone to write sophisticated applications that can be distributed across the Windows, Mac, and Linux platforms. This practical tutorial reference is ideal for anyone wishing to master REALbasic, from beginners to experienced Visual Basic programmers who want to create cross platform programs. REALbasic’s success is proven - there are already over 100,000 users, and this number is steadily rising. This is the only up-to-date book available for the current version, REALbasic 2005.

Proceedings of the 2nd International Conference on Green Communications and Networks 2012 (GCN 2012):-Yuhang Yang 2013-02-11 The objective of the 2nd International Conference on Green Communications and Networks 2012 (GCN 2012) is to facilitate an exchange of information on best practices for the latest research advances in the area of communications, networks and intelligence applications. These mainly involve computer science and engineering, informatics, communications and control, electrical engineering, information computing, and business intelligence and management. Proceedings of the 2nd International Conference on Green Communications and Networks 2012 (GCN 2012) will focus on green information technology and applications, which will provide in-depth insights for engineers and scientists in academia, industry, and government. The book addresses the most innovative research developments including technical challenges, social and economic issues, and presents and discusses the authors’ ideas, experiences, findings, and current projects on all aspects of advanced green information technology and applications. Yuhang Yang is a professor at the Department of Electronic Engineering, Shanghai Jiao Tong University. Maode Ma is an associate professor at the School of Electrical & Electronic Engineering, Nanyang Technological University.

Practical Computer Vision Applications Using Deep Learning with CNNs-Ahmed Fawzy Gad 2018-12-05 Deploy deep learning applications into production across multiple platforms. You will work on computer vision applications that use the convolutional neural network (CNN) deep learning model and Python. This book starts by explaining the traditional machine-learning pipeline, where you will analyze an image dataset. Along the way you will cover artificial neural networks (ANNs), building one from scratch in Python, before optimizing it using genetic algorithms. For automating the process, the book highlights the limitations of traditional hand-crafted features for computer vision and why the CNN deep-learning model is the state-of-art solution. CNNs are discussed from scratch to demonstrate how they are different and more efficient than the fully connected ANN (FCNN). You will implement a CNN in Python to give you a full understanding of the model. After consolidating the basics, you will use TensorFlow to build a practical image-recognition model that you will deploy to a web server using Flask, making it accessible over the Internet. Using Kivy and NumPy, you will create cross-platform data science applications with low overheads. This book will help you apply deep learning and computer vision concepts from scratch, step-by-step from conception to production. What You Will Learn Understand how ANNs and CNNs work Create computer vision applications and CNNs from scratch using Python Follow a deep learning project from conception to production using TensorFlow Use NumPy with Kivy to build cross-platform data science applications Who This Book Is ForData scientists, machine learning and deep learning engineers, software developers.

PC Mag- 2001-10-30 PCMag.com is a leading authority on technology, delivering Labs-based, independent reviews of the latest products and services. Our expert industry analysis and practical solutions help you make better buying decisions and get more from technology.

Practical Teaching in Emergency Medicine-Robert L. Rogers 2012-10-18 Emergency medicine attendings who wish to hone their teachingskills can find a number of books on educational strategies writtenby physicians from other disciplines. However, until thepublication of the first edition of this book, they did not haveaccess to a text written by emergency medicine physicians onmethods of teaching that are directly applicable to teaching EM. This book was compiled to meet that need. Following the introductory section, which provides importantbackground information, the
book's contents are organized into 4 sections that correspond to the core needs and interests of EM educators: Section 2 focuses on practical and ethical considerations of teaching in the ED; Section 3 provides strategies for teaching specific groups of learners; Section 4 looks at the skills that are characteristic of the best EM educators; and Section 5 looks in depth at specific teaching techniques and strategies. Now more than ever this book addresses the needs of physician educators from all over the world. New chapters discuss lecturing to an international audience; using simulation as a teaching tool; how to make journal club work for you, and other topics that are of broad interest to medical educators in this field. In general, each chapter has been updated and reviewed to make sure the content was something that emergency physician educators could use in any country. The chapter contributors are widely regarded as leaders in the field of emergency medicine education and faculty development. Authors were given free rein to develop their chapters and write in their own style. They were asked to present their personal views on how to successfully teach the art of emergency medicine, rather than review evidence-based guidelines regarding medical education. As a result, most of the chapters have few references. This first-person approach to a multi-authored textbook yields a compilation that varies in style from chapter to chapter and exposes the reader to a variety of communication techniques.

Data Science for Business Professionals- Probyto Data Science and Consulting Pvt. Ltd. 2020-05-06
Primer into the multidisciplinary world of Data Science

KEY FEATURES - Explore and use the key concepts of Statistics required to solve data science problems - Use Docker, Jenkins, and Git for Continuous Development and Continuous Integration of your web app - Learn how to build Data Science solutions with GCP and AWS

DESCRIPTION The book will initially explain the What-Why of Data Science and the process of solving a Data Science problem. The fundamental concepts of Data Science, such as Statistics, Machine Learning, Business Intelligence, Data pipeline, and Cloud Computing, will also be discussed. All the topics will be explained with an example problem and will show how the industry approaches to solve such a problem. The book will pose questions to the learners to solve the problems and build the problem-solving aptitude and effectively learn. The book uses Mathematics wherever necessary and will show you how it is implemented using Python with the help of an example dataset. WHAT WILL YOU LEARN - Understand the multi-disciplinary nature of Data Science - Get familiar with the key concepts in Mathematics and Statistics - Explore a few key ML algorithms and their use cases - Learn how to implement the basics of Data Pipelines - Get an overview of Cloud Computing & DevOps - Learn how to create visualizations using Tableau

WHO THIS BOOK IS FOR This book is ideal for Data Science enthusiasts who want to explore various aspects of Data Science. Useful for Academicians, Business owners, and Researchers for a quick reference on industrial practices in Data Science.


Wireless Blockchain-Bin Cao 2021-12-20
Explore foundational concepts in blockchain theory with an emphasis on recent advances in theory and practice. In Wireless Blockchain: Principles, Technologies and Applications, accomplished researchers and authors Bin Cao, Lei Zhang, Mugen Peng, and Muhammad Ali Imran deliver a robust and accessible exploration of recent developments in the theory and practice of blockchain technology, systems, and potential application in a variety of industrial sectors, including manufacturing, entertainment, public safety, telecommunications, public transport, healthcare, financial services, automotive, and energy utilities. The book presents the concept of wireless blockchain networks with different network topologies and communication protocols for various commonly used blockchain applications. You'll discover how these variations...
and how communication networks affect blockchain consensus performance, including scalability,
throughput, latency, and security levels. You'll learn the state-of-the-art in blockchain technology and
find insights on how blockchain runs and co-works with existing systems, including 5G, and how
blockchain runs as a service to support all vertical sectors efficiently and effectively. Readers will
also benefit from the inclusion of: A thorough introduction to the Byzantine Generals problem, the
fundamental theory of distributed system security and the foundation of blockchain technology An
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Technologies and Applications will also earn a place in the libraries of communication and computer
system stakeholders, regulators, legislators, and research agencies.
Instrumentation, Control and Automation of Water and Wastewater Treatment and Transport
Systems-R. Briggs 2013-09-24 Instrumentation, Control and Automation of Water and Wastewater
Treatment and Transport Systems documents the proceedings of the 5th IAWPRC Workshop held in
Yokohama and Kyoto, Japan, 26 July-3 August 1990. The papers presented at this Workshop have
emphasized the following aspects: • new sensor technology based on developments in
electrochemistry, fiber optics, and electro-optics; • research into materials such as those needed to
produce membranes of the required selectivity, for immobilization of reactive species, and for
addition of reagents and standards; • the use of inferential measurements coupled with expert
system technology; • the ever-increasing power of microprocessors and the continuing reduction in
their unit costs; • better communications capability; • improved mathematical modeling; • an
increased awareness of the improved management that results from the timely availability of
relevant data to the appropriate levels in the management hierarchy. This book, together with the
proceedings of previous workshops, provides what is probably the most comprehensive account of
the state of the art and recent developments in instrumentation, control, and automation as applied
to the water and water-using industries, and as such will be invaluable to the practitioner, the
researcher, and the student community.
Automating Finance-Juan Pablo Pardo-Guerra 2019-05-31 Explains how stock markets became
automated through the work of invisible technologists, redefining the fabric of finance for the
twenty-first century.
Real World SQL Server Administration with Perl-Dave Shea 2008-01-01 "SQL Server Administration
with Perl" consists of a series of scenarios covering a wide range of SQL Server administrative
topics. These are real-world scenarios that you hear DBAs discussing on the SQL Server forums and
newsgroups-scenarios that DBAs run into in their day-to-day development or production
environments. Readers will walk away from this book with two things: a DBA toolkit with well over
150 Perl scripts and problem-solving techniques they can apply to create even more tools for
attacking other SQL Server administrative problems.
Docker-Craig Berg 2020-06-29 Have you ever desired to have an open source containerization
platform that doesn't just package applications into containers to be portable for systems running
the Windows OS and Linux OS, but one that ensures they run in any environment or platform, and
one that ensures that the container can have different applications installed on it to save time? If
you've answered YES, keep reading... You Are about to Discover the Ins And Outs of Docker So You
Can Start Using It with Confidence, Even If You've Never Used It Before! Docker, which is a hot
topic in cloud computing that is difficult to avoid, is the technology that you need to get familiar with
to cash in on many opportunities, including continuous development and deployment, better
automation of configuration management and world-class IT service agility. Popularly used for
developing, shipping and running applications, Docker is the phenomenon that has been enabling
developers to isolate applications from their underlying infrastructure to achieve supersonic software delivery while enjoying the benefits of the characteristic lightweight feature of the containers, as well as their flexibility, spaciousness, tenability and versatility. But like most technologies, Docker can feel confusing and overly complex, especially for someone who's new to cloud computing, or a little overwhelming to a developer who's just making the acquaintance of it. As such, you may wonder: What is Docker (good for)? How does this platform really work? How would I benefit from it exactly? How is it any different from its predecessors? How do I get started with it? If that's you, then you came to the right place. You are looking at a simple, comprehensive and practical beginners' and intermediates' book that has all the answers to these and many more questions; one that will leave you with an all-inclusive understanding of this platform to know exactly why it has been causing ripples in the cloud computing community. Here's a tiny bit of what you'll discover: A detailed overview of the Docker platform and architecture How to install Docker on Linux, Windows and OSX How to pull Docker images and run containers properly How to work with Docker containers like a pro How to work with Docker images efficiently What you need to know about containers network and data management, and how to work with them ...And much more! A recent search on LinkedIn revealed almost 30,000 jobs across the country for developers with knowledge of Docker, a number that keeps increasing. If you're also looking to boost your business with better containerization and the amazing features of Docker, or just increase your skills and become a master Docker to become a DevOps guru, it's about time you made the one positive step, which is to learn and refine your skills. And even if this is your first encounter with Docker, by reading this book, you will feel confident getting started with Docker! Scroll up and click Buy Now With 1-Click or Buy Now to get started!

Management and Business Research—Mark Easterby-Smith 2021-04-24 An updated edition of a bestselling text that provides readers with a clear and comprehensive overview of methods for conducting management and business research.

Machine Learning with Python—Alexander Cane 2020-03-17 Are you looking for a guide that will teach you all you need to know about Machine Learning? Are you looking for a way to learn how to write algorithms from scratch? This 3 book bundle will help you to master Machine Learning with Python.

Manuscript - 1
Before you get into the world of machine learning, you have to start at the very basics if you are just getting started with programming. Python is one of the best platforms to start with as it serves as a core of modern computing techniques such as deep learning, machine learning and neural networks. In this book, you will learn exactly what advantages Python has over other languages. You will also learn how to set up Python in your system and code and run basic programs all with the aid of sample codes provided throughout the book. From syntax to functions to data types to conditional statements, Machine Learning with Python is well-rounded to assist you in your coding journey.

Manuscript - 2
Artificial intelligence is a common part of our lives, and we use it daily. Machine learning is one application of artificial intelligence and is where software, computers and devices use cognition to learn. If you use Siri on an iPhone, Cortana on your Windows PC, or Alexa, you are already making use of machine learning, especially when they provide you with traffic news, weather predictions, search results, and more. With this guide, you will learn the machine learning basics, using real code and open-source data sets. You will learn: - An overview of the Python language- Popular machine learning algorithms-Basics of machine learning-Machine learning terminology-How to preprocess data-How to create data sets-How to use Scikit-learn to build models-Using TensorFlow to build neural networks-And much more! Even provide you with a multiple choice quiz, complete with answers, to help you test your knowledge.

Manuscript - 3
This book focuses on advanced sub-domains of machine learning, such as Class Imbalance strategies, Hidden Markov Models, HMM, Reinforcement Learning, RNN, and LSTM, along with a few more advanced level topics. With its high power and ease of use, we will use the Scikit Machine Learning Library in Python. Unlike statistics, where models are used to understand data, different modeling in machine learning focuses on developing models that make more accurate predictions. Unlike the broader area of machine learning that can be used with data of any format, Hidden Markov models
focus on robotics (e.g., controlling the robots by programming). This book is designed to introduce you to the most important and powerful methods of machine learning used by leading computer experts. It contains clear examples and detailed code samples to demonstrate deep learning, semi-directed learning, and other techniques. The methods discussed in this book will help you get started in this profitable and growing industry. Compete with the best data professionals and gain practical and theoretical insight into the latest in-depth training algorithms. Use your new skills to solve real-world problems. Automation of large and complex data sets and overcoming complex and time-consuming practices. Increase the accuracy of existing models and their input using object design methods. Sharing of different training methods to improve the consistency of results. Understand the hidden structure of documents using various unmanaged methods. To further improve the effectiveness of training models by using consistent methods to combine different models. In addition, the book is designed in such a way that any student, researcher, or technologist who conducts various experiments using large data sets and combines them into a predictive output can use a variety of machine learning tools offered by the programming language. Grab this 3 book bundle today and start learning how to code your very own machine learning algorithms!
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