

## Fake Folder V1 0

Longlisted for the National Book Award New York Times Bestseller A former Wall Street quant sounds an alarm on the mathematical models that pervade modern life -- and threaten to rip apart our social fabric We live in the age of the algorithm. Increasingly, the decisions that affect our lives--where we go to school, whether we get a car loan, how much we pay for health insurance--are being made not by humans, but by mathematical models. In theory, this should lead to greater fairness: Everyone is judged according to the same rules, and bias is eliminated. But as Cathy O'Neil reveals in this urgent and necessary book, the opposite is true. The models being used today are opaque, unregulated, and uncontestable, even when they're wrong. Most troubling, they reinforce discrimination: If a poor student can't get a loan because a lending model deems him too risky (by virtue of his zip code), he's then cut off from the kind of education that could pull him out of poverty, and a vicious spiral ensues. Models are propping up the lucky and punishing the downtrodden, creating a "toxic cocktail for democracy." Welcome to the dark side of Big Data. Tracing the arc of a person's life, O'Neil exposes the black box models that shape our future, both as individuals and as a society. These "weapons of math destruction" score teachers and students, sort r sum s, grant (or deny) loans, evaluate workers, target voters, set parole, and monitor our health. O'Neil calls on modelers to take more responsibility for their algorithms and on policy makers to regulate their use. But in the

end, it's up to us to become more savvy about the models that govern our lives. This important book empowers us to ask the tough questions, uncover the truth, and demand change. -- Longlist for National Book Award (Non-Fiction) -- Goodreads, semi-finalist for the 2016 Goodreads Choice Awards (Science and Technology) -- Kirkus, Best Books of 2016 -- New York Times, 100 Notable Books of 2016 (Non-Fiction) -- The Guardian, Best Books of 2016 -- WBUR's "On Point," Best Books of 2016: Staff Picks -- Boston Globe, Best Books of 2016, Non-Fiction

Build data-intensive applications locally and deploy at scale using the combined powers of Python and Spark 2.0 About This Book Learn why and how you can efficiently use Python to process data and build machine learning models in Apache Spark 2.0 Develop and deploy efficient, scalable real-time Spark solutions Take your understanding of using Spark with Python to the next level with this jump start guide Who This Book Is For If you are a Python developer who wants to learn about the Apache Spark 2.0 ecosystem, this book is for you. A firm understanding of Python is expected to get the best out of the book. Familiarity with Spark would be useful, but is not mandatory. What You Will Learn Learn about Apache Spark and the Spark 2.0 architecture Build and interact with Spark DataFrames using Spark SQL Learn how to solve graph and deep learning problems using GraphFrames and TensorFrames respectively Read, transform, and understand data and use it to train machine learning models Build machine learning models with MLib and ML Learn how to submit your applications

programmatically using spark-submit Deploy locally built applications to a cluster In Detail Apache Spark is an open source framework for efficient cluster computing with a strong interface for data parallelism and fault tolerance. This book will show you how to leverage the power of Python and put it to use in the Spark ecosystem. You will start by getting a firm understanding of the Spark 2.0 architecture and how to set up a Python environment for Spark. You will get familiar with the modules available in PySpark. You will learn how to abstract data with RDDs and DataFrames and understand the streaming capabilities of PySpark. Also, you will get a thorough overview of machine learning capabilities of PySpark using ML and MLlib, graph processing using GraphFrames, and polyglot persistence using Blaze. Finally, you will learn how to deploy your applications to the cloud using the spark-submit command. By the end of this book, you will have established a firm understanding of the Spark Python API and how it can be used to build data-intensive applications. Style and approach This book takes a very comprehensive, step-by-step approach so you understand how the Spark ecosystem can be used with Python to develop efficient, scalable solutions. Every chapter is standalone and written in a very easy-to-understand manner, with a focus on both the hows and the whys of each concept.

Modern cars are more computerized than ever. Infotainment and navigation systems, Wi-Fi, automatic software updates, and other innovations aim to make driving more convenient. But vehicle technologies

haven't kept pace with today's more hostile security environment, leaving millions vulnerable to attack. The Car Hacker's Handbook will give you a deeper understanding of the computer systems and embedded software in modern vehicles. It begins by examining vulnerabilities and providing detailed explanations of communications over the CAN bus and between devices and systems. Then, once you have an understanding of a vehicle's communication network, you'll learn how to intercept data and perform specific hacks to track vehicles, unlock doors, glitch engines, flood communication, and more. With a focus on low-cost, open source hacking tools such as Metasploit, Wireshark, Kayak, can-utils, and ChipWhisperer, The Car Hacker's Handbook will show you how to:

- Build an accurate threat model for your vehicle
- Reverse engineer the CAN bus to fake engine signals
- Exploit vulnerabilities in diagnostic and data-logging systems
- Hack the ECU and other firmware and embedded systems
- Feed exploits through infotainment and vehicle-to-vehicle communication systems
- Override factory settings with performance-tuning techniques
- Build physical and virtual test benches to try out exploits safely

If you're curious about automotive security and have the urge to hack a two-ton computer, make The Car Hacker's Handbook your first stop.

From the author of *Welcome to Camp America*, an eerie exploration of America's performance of power and identity in the post-9/11 era What are the stories we tell ourselves, the games we play, to manage unsettling realities? Made on ten military bases across the United

States since 2016, Necessary Fictions documents mock-village landscapes in the fictional country of "Atropia" and its denizens, roleplayers who enact versions of their past or future selves in realistic training scenarios.

Costumed Afghan and Iraqi civilians, many of whom have fled war, now recreate it in the service of the US military. Real soldiers pose in front of camouflage backdrops, dressed by Hollywood makeup artists in "mouflage"--fake wounds--as they prepare to deploy. Brooklyn-based conceptual documentary artist and former civil rights lawyer Debi Cornwall (born 1973) photographs this meta-reality--the artifice of war--presented in the book with a variety of texts to provoke critical inquiry about America's fantasy industrial complex. The book includes an essay by PEN Award-winning critical theorist Sarah Sentilles.

Many books and courses tackle natural language processing (NLP) problems with toy use cases and well-defined datasets. But if you want to build, iterate, and scale NLP systems in a business setting and tailor them for particular industry verticals, this is your guide.

Software engineers and data scientists will learn how to navigate the maze of options available at each step of the journey. Through the course of the book, authors Sowmya Vajjala, Bodhisattwa Majumder, Anuj Gupta, and Harshit Surana will guide you through the process of building real-world NLP solutions embedded in larger product setups. You'll learn how to adapt your solutions for different industry verticals such as healthcare, social media, and retail. With this book, you'll: Understand the wide spectrum of problem statements, tasks, and

solution approaches within NLP Implement and evaluate different NLP applications using machine learning and deep learning methods Fine-tune your NLP solution based on your business problem and industry vertical Evaluate various algorithms and approaches for NLP product tasks, datasets, and stages Produce software solutions following best practices around release, deployment, and DevOps for NLP systems Understand best practices, opportunities, and the roadmap for NLP from a business and product leader's perspective

Rare edition with unique illustrations. Kipling wrote some of the best animal stories for children, including his Jungle Books and Just So stories. His language is rich, inventive, and sonorous. He is regarded as a major innovator in the art of the short story; his children's books are classics of children's literature. This is an adaptation of a famous Rudyard Kipling story, which explains how the elephant got its trunk. The story is set in Africa, when the world was new and elephants did not have trunks.

Apple Training Series: Mac OS X v10.5 Deployment v10.5 uses a combination of task-based instruction and strong visuals to teach intermediate and advanced users how to deploy a wide range of files and systems to multiple users in a large organization. Author Kevin White takes readers through the deployment of software, ranging from individual files, to complete systems, to multiple users, discussing the range of methodologies used. Intermediate users will learn how to use Apple deployment tools, including Disk Utility, PackageMaker, Apple Software Restore, and NetBoot. Advanced users will learn how to customize deployment solutions with

scripts to provide post-installation configuration.

Throughout the book, users learn how to tie all of the solutions together to create fully integrated software and hardware deployment plans..

Until recently, creating desktop-like applications in the browser meant using inefficient Ajax or Comet technologies to communicate with the server. With this practical guide, you'll learn how to use WebSocket, a protocol that enables the client and server to communicate with each other on a single connection simultaneously. No more asynchronous communication or long polling! For developers with a good grasp of JavaScript (and perhaps Node.js), author Andrew Lombardi provides useful hands-on examples throughout the book to help you get up to speed with the WebSocket API.

You'll also learn how to use WebSocket with Transport Layer Security (TLS). Learn how to use WebSocket API events, messages, attributes, and methods within your client application

Build bi-directional chat applications on the client and server with WebSocket as the communication layer

Create a subprotocol over WebSocket for STOMP 1.0, the Simple Text Oriented Messaging Protocol

Use options for older browsers that don't natively support WebSocket

Protect your WebSocket application against various attack vectors with TLS and other tools

Debug applications by learning aspects of the WebSocket lifecycle

Presents instructions for creating Android applications for mobile devices using Java.

An edufictional adventure novel for young teens to learn about being safe, savvy and sensible on the Internet and based on the 9 Elements of Digital Citizenship developed by Dr. Mike Ribble.

EC-Council Certified Ethical Hacking (CEH) v10 Exam 312-50 Latest v10. This updated version includes two major

enhancement, New modules added to cover complete CEHv10 blueprint. Book scrutinized to rectify grammar, punctuation, spelling and vocabulary errors. CEHv10 Update CEH v10 covers new modules for the security of IoT devices, vulnerability analysis, focus on emerging attack vectors on the cloud, artificial intelligence, and machine learning including a complete malware analysis process. Our CEH workbook delivers a deep understanding of applications of the vulnerability analysis in a real-world environment. Information security is always a great challenge for networks and systems. Data breach statistics estimated millions of records stolen every day which evolved the need for Security. Almost each and every organization in the world demands security from identity theft, information leakage and integrity of their data. The role and skills of Certified Ethical Hacker are becoming more significant and demanding than ever. EC-Council Certified Ethical Hacking (CEH) ensures the delivery of knowledge regarding fundamental and advanced security threats, evasion techniques from intrusion detection system and countermeasures of attacks as well as up-skill you to penetrate platforms to identify vulnerabilities in the architecture. CEH v10 update will cover the latest exam blueprint, comprised of 20 Modules which includes the practice of information security and hacking tools which are popularly used by professionals to exploit any computer systems. CEHv10 course blueprint covers all five Phases of Ethical Hacking starting from Reconnaissance, Gaining Access, Enumeration, Maintaining Access till covering your tracks. While studying CEHv10, you will feel yourself into a Hacker's Mindset. Major additions in the CEHv10 course are Vulnerability Analysis, IoT Hacking, Focused on Emerging Attack Vectors, Hacking Challenges, and updates of latest threats & attacks including Ransomware, Android Malware, Banking & Financial malware, IoT botnets and much more.



IPSpecialist CEH technology workbook will help you to learn Five Phases of Ethical Hacking with tools, techniques, and The methodology of Vulnerability Analysis to explore security loopholes, Vulnerability Management Life Cycle, and Tools used for Vulnerability analysis.DoS/DDoS, Session Hijacking, SQL Injection & much more.Threats to IoT platforms and defending techniques of IoT devices.Advance Vulnerability Analysis to identify security loopholes in a corporate network, infrastructure, and endpoints.Cryptography Concepts, Ciphers, Public Key Infrastructure (PKI), Cryptography attacks, Cryptanalysis tools and Methodology of Crypt Analysis.Penetration testing, security audit, vulnerability assessment, and penetration testing roadmap.Cloud computing concepts, threats, attacks, tools, and Wireless networks, Wireless network security, Threats, Attacks, and Countermeasures and much more

Featuring lyrics, chord boxes and melody line, text, as well as black and white photos, these handy books are an ideal size for stuffing in your gig bag. Glance inside and you'll see they're super-sized packages of hit after hit for all musicians.With a hard-wearing PVC cover, each book in the series is designed to be carried around and used, over and over again!Bound to be as popular with keyboard players as the Little Black Books are with guitarists!

INSTANT NEW YORK TIMES BESTSELLER “One of the most important books I’ve ever read—an indispensable guide to thinking clearly about the world.” – Bill Gates “Hans Rosling tells the story of ‘the secret silent miracle of human progress’ as only he can. But Factfulness does much more than that. It also explains why progress is so often secret and silent and teaches readers how to see it clearly.” —Melinda Gates "Factfulness by Hans Rosling, an outstanding international public health expert, is a hopeful book about the potential for human progress when we work off facts rather

than our inherent biases." - Former U.S. President Barack Obama

**Factfulness: The stress-reducing habit of only carrying opinions for which you have strong supporting facts.** When asked simple questions about global trends—what percentage of the world’s population live in poverty; why the world’s population is increasing; how many girls finish school—we systematically get the answers wrong. So wrong that a chimpanzee choosing answers at random will consistently outguess teachers, journalists, Nobel laureates, and investment bankers. In *Factfulness*, Professor of International Health and global TED phenomenon Hans Rosling, together with his two long-time collaborators, Anna and Ola, offers a radical new explanation of why this happens. They reveal the ten instincts that distort our perspective—from our tendency to divide the world into two camps (usually some version of us and them) to the way we consume media (where fear rules) to how we perceive progress (believing that most things are getting worse). Our problem is that we don’t know what we don’t know, and even our guesses are informed by unconscious and predictable biases. It turns out that the world, for all its imperfections, is in a much better state than we might think. That doesn’t mean there aren’t real concerns. But when we worry about everything all the time instead of embracing a worldview based on facts, we can lose our ability to focus on the things that threaten us most. Inspiring and revelatory, filled with lively anecdotes and moving stories, *Factfulness* is an urgent and essential book that will change the way you see the world and empower you to respond to the crises and opportunities of the future. --- “This book is my last battle in my life-long mission to fight devastating ignorance...Previously I armed myself with huge data sets, eye-opening software, an energetic learning style and a Swedish bayonet for sword-swallowing. It wasn’t enough. But

I hope this book will be.” Hans Rosling, February 2017.

Optimize Windows system reliability and performance with Sysinternals IT pros and power users consider the free Windows Sysinternals tools indispensable for diagnosing, troubleshooting, and deeply understanding the Windows platform. In this extensively updated guide, Sysinternals creator Mark Russinovich and Windows expert Aaron Margosis help you use these powerful tools to optimize any Windows system’s reliability, efficiency, performance, and security. The authors first explain Sysinternals’ capabilities and help you get started fast. Next, they offer in-depth coverage of each major tool, from Process Explorer and Process Monitor to Sysinternals’ security and file utilities. Then, building on this knowledge, they show the tools being used to solve real-world cases involving error messages, hangs, sluggishness, malware infections, and much more.

Windows Sysinternals creator Mark Russinovich and Aaron Margosis show you how to:

- Use Process Explorer to display detailed process and system information
- Use Process Monitor to capture low-level system events, and quickly filter the output to narrow down root causes
- List, categorize, and manage software that starts when you start or sign in to your computer, or when you run Microsoft Office or Internet Explorer
- Verify digital signatures of files, of running programs, and of the modules loaded in those programs
- Use Autoruns, Process Explorer, Sigcheck, and Process Monitor features that can identify and clean malware infestations
- Inspect permissions on files, keys, services, shares, and other objects
- Use Sysmon to monitor security-relevant events across your network
- Generate memory dumps when a process meets specified criteria
- Execute processes remotely, and close files that were opened remotely
- Manage Active Directory objects and trace LDAP API calls
- Capture detailed data about processors, memory, and clocks
- Troubleshoot unbootable

devices, file-in-use errors, unexplained communication, and many other problems Understand Windows core concepts that aren't well-documented elsewhere

You don't need to be a wizard to transform a game you like into a game you love. Imagine if you could give your favorite PC game a more informative heads-up display or instantly collect all that loot from your latest epic battle.

Bring your knowledge of Windows-based development and memory management, and Game Hacking will teach you what you need to become a true game hacker.

Learn the basics, like reverse engineering, assembly code analysis, programmatic memory manipulation, and code injection, and hone your new skills with hands-on example code and practice binaries. Level up as you learn how to: –Scan and modify memory with Cheat Engine –Explore program structure and execution flow with OllyDbg –Log processes and pinpoint useful data files with Process Monitor –Manipulate control flow through NOPing, hooking, and more –Locate and dissect common game memory structures You'll even discover the secrets behind common game bots, including:

–Extrasensory perception hacks, such as wallhacks and heads-up displays –Responsive hacks, such as autohealers and combo bots –Bots with artificial intelligence, such as cave walkers and automatic looters

Game hacking might seem like black magic, but it doesn't have to be. Once you understand how bots are made, you'll be better positioned to defend against them in your own games. Journey through the inner workings of PC games with Game Hacking, and leave with a deeper understanding of both game design and

computer security.

Learn how to hack systems like black hat hackers and secure them like security experts

**Key Features**  
Understand how computer systems work and their vulnerabilities  
Exploit weaknesses and hack into machines to test their security  
Learn how to secure systems from hackers

**Book Description**  
This book starts with the basics of ethical hacking, how to practice hacking safely and legally, and how to install and interact with Kali Linux and the Linux terminal. You will explore network hacking, where you will see how to test the security of wired and wireless networks. You'll also learn how to crack the password for any Wi-Fi network (whether it uses WEP, WPA, or WPA2) and spy on the connected devices. Moving on, you will discover how to gain access to remote computer systems using client-side and server-side attacks. You will also get the hang of post-exploitation techniques, including remotely controlling and interacting with the systems that you compromised. Towards the end of the book, you will be able to pick up web application hacking techniques. You'll see how to discover, exploit, and prevent a number of website vulnerabilities, such as XSS and SQL injections. The attacks covered are practical techniques that work against real systems and are purely for educational purposes. At the end of each section, you will learn how to detect, prevent, and secure systems from these attacks. What you will learn

Understand ethical hacking and the different fields and types of hackers  
Set up a penetration testing lab to practice safe and legal hacking  
Explore Linux basics, commands, and

how to interact with the terminal Access password-protected networks and spy on connected clients Use server and client-side attacks to hack and control remote computers Control a hacked system remotely and use it to hack other systems Discover, exploit, and prevent a number of web application vulnerabilities such as XSS and SQL injections Who this book is for Learning Ethical Hacking from Scratch is for anyone interested in learning how to hack and test the security of systems like professional hackers and security experts.

Organizations are increasingly transitioning to IPv6, the next generation protocol for defining how devices of all kinds communicate over networks. Now fully updated, IPv6 Fundamentals offers a thorough, friendly, and easy-to-understand introduction to the knowledge and skills you need to deploy and operate IPv6 networks. Leading networking instructor Rick Graziani explains all the basics simply and clearly, step-by-step, providing all the details you'll need to succeed. You'll learn why IPv6 is necessary, how it was created, how it works, and how it has become the protocol of choice in environments ranging from cloud to mobile and IoT. Graziani thoroughly introduces IPv6 addressing, configuration options, and routing protocols, including EIGRP for IPv6, and OSPFv3 (traditional configuration and with address families). Building on this coverage, he then includes more in-depth information involving these protocols and processes. This edition contains a completely revamped discussion of deploying IPv6 in your network, including IPv6/IPv4 integration, dynamic address allocation, and understanding IPv6 from the perspective of the network

and host. You'll also find improved coverage of key topics such as Stateless Address Autoconfiguration (SLAAC), DHCPv6, and the advantages of the solicited node multicast address. Throughout, Graziani presents command syntax for Cisco IOS, Windows, Linux, and Mac OS, as well as many examples, diagrams, configuration tips, and updated links to white papers and official RFCs for even deeper understanding. Learn how IPv6 supports modern networks encompassing the cloud, mobile, IoT, and gaming devices Compare IPv6 with IPv4 to see what has changed and what hasn't Understand and represent IPv6 addresses for unicast, multicast, and anycast environments Master all facets of dynamic IPv6 address allocation with SLAAC, stateless DHCPv6, and stateful DHCPv6 Understand all the features of deploying IPv6 addresses in the network including temporary addresses and the privacy extension Improve operations by leveraging major enhancements built into ICMPv6 and ICMPv6 Neighbor Discovery Protocol Configure IPv6 addressing and Access Control Lists using a common topology Implement routing of IPv6 packets via static routing, EIGRP for IPv6, and OSPFv3 Walk step-by-step through deploying IPv6 in existing networks, and coexisting with or transitioning from IPv4

Covers topics including HTTP methods and status codes, optimizing proxies, designing web crawlers, content negotiation, and load-balancing strategies. The definitive guide to incident response--updated for the first time in a decade! Thoroughly revised to cover the latest and most effective tools and techniques, Incident

Response & Computer Forensics, Third Edition arms you with the information you need to get your organization out of trouble when data breaches occur. This practical resource covers the entire lifecycle of incident response, including preparation, data collection, data analysis, and remediation. Real-world case studies reveal the methods behind--and remediation strategies for--today's most insidious attacks. Architect an infrastructure that allows for methodical investigation and remediation Develop leads, identify indicators of compromise, and determine incident scope Collect and preserve live data Perform forensic duplication Analyze data from networks, enterprise services, and applications Investigate Windows and Mac OS X systems Perform malware triage Write detailed incident response reports Create and implement comprehensive remediation plans

“A little sweet, a little sharp.” —Booklist, starred review

High school nemeses fall in love in Kelly Quindlen's *She Drives Me Crazy*, a queer YA rom com perfect for fans of Becky Albertalli and Casey McQuisten. After an embarrassing loss to her ex-girlfriend in their first basketball game of the season, seventeen-year-old Scottie Zajac gets into a fender bender with the worst possible person: her nemesis, Irene Abraham, head cheerleader for the Fighting Reindeer. Irene is as mean as she is beautiful, so Scottie makes a point to keep her distance. When the accident sends Irene's car to the shop for weeks' worth of repairs and the girls are forced to carpool, their rocky start only gets bumpier. But when an opportunity arises for Scottie to get back at her toxic ex—and climb her school's social ladder—she bribes



Irene into an elaborate fake- dating scheme that threatens to reveal some very real feelings. From author Kelly Quindlen comes a new laugh-out-loud romp through the ups and downs of teen romance, perfect for fans of Becky Albertalli.

Learn Android Studio covers Android Studio and its rich tools ecosystem, including Git and Gradle: this book covers how Android Studio works seamlessly with Git, for source control, and Gradle, a build and test tool. In addition, this book demonstrates how to develop/collaborate with remote Git web-hosting services such as GitHub and Bitbucket. Four complete Android projects accompany this volume and are available for download from a public Git repository. With this book, you learn the latest and most productive tools in the Android tools ecosystem, and the best practices for Android app development. You will be able to take away the labs' code as templates or frameworks to re-use and customize for your own similar apps. Android Studio is an intuitive, feature-rich, and extremely forgiving Integrated Development Environment (IDE). This IDE is more productive and easier to use for your Android app creations than Eclipse. With this book you will quickly master Android Studio and maximize your Android development time. Source code on the remote web-hosting service is targeted to the latest Android Studio release, version 1.2.

Take full creative control of your web applications with Flask, the Python-based microframework. With this hands-on book, you'll learn Flask from the ground up by developing a complete social blogging application step-by-step. Author

Miguel Grinberg walks you through the framework's core functionality, and shows you how to extend applications with advanced web techniques such as database migration and web service communication. Rather than impose development guidelines as other frameworks do, Flask leaves the business of extensions up to you. If you have Python experience, this book shows you how to take advantage of that creative freedom. Learn Flask's basic application structure and write an example app Work with must-have components—templates, databases, web forms, and email support Use packages and modules to structure a large application that scales Implement user authentication, roles, and profiles Build a blogging feature by reusing templates, paginating item lists, and working with rich text Use a Flask-based RESTful API to expose app functionality to smartphones, tablets, and other third-party clients Learn how to run unit tests and enhance application performance Explore options for deploying your web app to a production server

If you're familiar with Gradle's basics elements—possibly through the author's previous O'Reilly book, *Building and Testing with Gradle*—this more advanced guide provides the recipes, techniques, and syntax to help you master this build automation tool. With clear, concise explanations and lots of ready-to-use code examples, you'll explore four discrete areas of Gradle functionality: file operations, custom Gradle plugins, build lifecycle hooks, and dependency management. Learn how to use Gradle's rich set of APIs and Groovy-based Domain Specific Language to customize build software that actually conforms to your product. By using the techniques in this book, you'll be able to write domain-specific builds that support every other line of code your team creates. Examine Gradle's file API, including copy tasks, pattern matching, content filtering, and the FileCollection

interface Understand the process for building and packaging a custom Gradle plug-in Manage build complexity with hook methods and Gradle's rule feature Learn how Gradle handles dependency management natively and through customization Explore Gradle's core plug-ins as well as key examples from the Gradle community

Data in all domains is getting bigger. How can you work with it efficiently? Recently updated for Spark 1.3, this book introduces Apache Spark, the open source cluster computing system that makes data analytics fast to write and fast to run. With Spark, you can tackle big datasets quickly through simple APIs in Python, Java, and Scala. This edition includes new information on Spark SQL, Spark Streaming, setup, and Maven coordinates. Written by the developers of Spark, this book will have data scientists and engineers up and running in no time. You'll learn how to express parallel jobs with just a few lines of code, and cover applications from simple batch jobs to stream processing and machine learning. Quickly dive into Spark capabilities such as distributed datasets, in-memory caching, and the interactive shell Leverage Spark's powerful built-in libraries, including Spark SQL, Spark Streaming, and MLlib Use one programming paradigm instead of mixing and matching tools like Hive, Hadoop, Mahout, and Storm Learn how to deploy interactive, batch, and streaming applications Connect to data sources including HDFS, Hive, JSON, and S3 Master advanced topics like data partitioning and shared variables

"We finally have the definitive treatise on PyTorch! It covers the basics and abstractions in great detail. I hope this book becomes your extended reference document." —Soumith Chintala, co-creator of PyTorch Key Features Written by PyTorch's creator and key contributors Develop deep learning models in a familiar Pythonic way Use PyTorch to build an image classifier for cancer detection Diagnose

problems with your neural network and improve training with data augmentation Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About The Book Every other day we hear about new ways to put deep learning to good use: improved medical imaging, accurate credit card fraud detection, long range weather forecasting, and more. PyTorch puts these superpowers in your hands. Instantly familiar to anyone who knows Python data tools like NumPy and Scikit-learn, PyTorch simplifies deep learning without sacrificing advanced features. It's great for building quick models, and it scales smoothly from laptop to enterprise. Deep Learning with PyTorch teaches you to create deep learning and neural network systems with PyTorch. This practical book gets you to work right away building a tumor image classifier from scratch. After covering the basics, you'll learn best practices for the entire deep learning pipeline, tackling advanced projects as your PyTorch skills become more sophisticated. All code samples are easy to explore in downloadable Jupyter notebooks. What You Will Learn Understanding deep learning data structures such as tensors and neural networks Best practices for the PyTorch Tensor API, loading data in Python, and visualizing results Implementing modules and loss functions Utilizing pretrained models from PyTorch Hub Methods for training networks with limited inputs Sifting through unreliable results to diagnose and fix problems in your neural network Improve your results with augmented data, better model architecture, and fine tuning This Book Is Written For For Python programmers with an interest in machine learning. No experience with PyTorch or other deep learning frameworks is required. About The Authors Eli Stevens has worked in Silicon Valley for the past 15 years as a software engineer, and the past 7 years as Chief Technical Officer of a startup making medical device software. Luca

Antiga is co-founder and CEO of an AI engineering company located in Bergamo, Italy, and a regular contributor to PyTorch. Thomas Viehmann is a Machine Learning and PyTorch speciality trainer and consultant based in Munich, Germany and a PyTorch core developer. Table of Contents  
PART 1 - CORE PYTORCH 1 Introducing deep learning and the PyTorch Library 2 Pretrained networks 3 It starts with a tensor 4 Real-world data representation using tensors 5 The mechanics of learning 6 Using a neural network to fit the data 7 Telling birds from airplanes: Learning from images 8 Using convolutions to generalize PART 2 - LEARNING FROM IMAGES IN THE REAL WORLD: EARLY DETECTION OF LUNG CANCER 9 Using PyTorch to fight cancer 10 Combining data sources into a unified dataset 11 Training a classification model to detect suspected tumors 12 Improving training with metrics and augmentation 13 Using segmentation to find suspected nodules 14 End-to-end nodule analysis, and where to go next PART 3 - DEPLOYMENT 15 Deploying to production

Meditation is not only about crystals, hypnotic folk music and incense sticks! Forget about sitting in unnatural and uncomfortable positions while going "ommmmm...." It is not a club full of yoga masters, Shaolin monks, hippies and new-agers. It is super practical and universal practice, that can improve your overall brain performance and happiness!

-Looking to be truly happy... not just fake smiles anymore?

-Sick of being held up and helpless, a victim of terrible

circumstance? -Do you really want to be a slave to your

emotions anymore? -Are you so depressed and negative that

no one really enjoys spending time with you? Well, I was not

necessarily talking to you, but if it speaks to you, you have

picked up the right book! Most People Walk Through Their

Life In a Walking Daze And I was too. I was constantly

fighting everything going on in my life; with my mind. Day to

day stressors like traffic, the mean lady at the gas station with the bad breath that I had to see every morning, and the long hours put in at work, were enough to drain me. My boss, with his long nose hair, breathing down my neck about my productivity level was enough to deplete a person every day. "What do I do? What will happen next? What if, what if, what if...?" I could not even enjoy a second of my day, because I was lost in worry and stress over what was going to happen next and what I could do to maybe control it. In this book you will find techniques to step out of your thinking and allow your mind to finally rest. When meditating, you take a step back from actively thinking your thoughts, and instead, see them for what they are. The reason why meditation is helpful in reducing stress and attaining peace is that it gives your over-active conscious a break. Just like your body needs it, your mind does too! I give you the gift of peace that I was able to attain through present moment awareness. In This Book I'll Show You: -My favorite meditation and mindfulness techniques perfect for ordinary busy people like you and me -My personal experience -How exactly do I practice and how it helped me in so many ways -How to maintain stillness, peace and focus in everyday life -How to stick to your meditation practice and maintain high level of motivation -The right mindset you should have to keep your brain and thoughts healthy -A few simple things you can do to instantly feel better and happier! -And many, many more! Table of Contents: Introduction: Why Meditation For Life Success? Chapter 1: Meditation? What it's all about? Chapter 2: Let's Get Started! Various types of Meditation/Guided Meditations Chapter 3: Meditation and Stillness in Everyday Life Chapter 4: How to Maintain Inner Peace and Never Feel Anxious or Distracted Again Chapter 5: Conclusion

A landmark insider's tour of how social media affects our decision-making and shapes our world in ways both useful

and dangerous, with critical insights into the social media trends of the 2020 election and beyond “The book might be described as prophetic. . . . At least two of Aral’s three predictions have come to fruition.”—New York NAMED ONE OF THE BEST BOOKS OF THE YEAR BY WIRED • LONGLISTED FOR THE PORCHLIGHT BUSINESS BOOK AWARD Social media connected the world—and gave rise to fake news and increasing polarization. It is paramount, MIT professor Sinan Aral says, that we recognize the outsize effect social media has on us—on our politics, our economy, and even our personal health—in order to steer today’s social technology toward its great promise while avoiding the ways it can pull us apart. Drawing on decades of his own research and business experience, Aral goes under the hood of the most powerful social networks to tackle the critical question of just how much social media actually shapes our choices, for better or worse. He shows how the tech behind social media offers the same set of behavior influencing levers to everyone who hopes to change the way we think and act—from Russian hackers to brand marketers—which is why its consequences affect everything from elections to business, dating to health. Along the way, he covers a wide array of topics, including how network effects fuel Twitter’s and Facebook’s massive growth, the neuroscience of how social media affects our brains, the real consequences of fake news, the power of social ratings, and the impact of social media on our kids. In mapping out strategies for being more thoughtful consumers of social media, *The Hype Machine* offers the definitive guide to understanding and harnessing for good the technology that has redefined our world overnight.

Data is bigger, arrives faster, and comes in a variety of formats—and it all needs to be processed at scale for analytics or machine learning. But how can you process such varied workloads efficiently? Enter Apache Spark. Updated to

include Spark 3.0, this second edition shows data engineers and data scientists why structure and unification in Spark matters. Specifically, this book explains how to perform simple and complex data analytics and employ machine learning algorithms. Through step-by-step walk-throughs, code snippets, and notebooks, you'll be able to:

- Learn Python, SQL, Scala, or Java high-level Structured APIs
- Understand Spark operations and SQL Engine Inspect, tune, and debug Spark operations with Spark configurations and Spark UI
- Connect to data sources: JSON, Parquet, CSV, Avro, ORC, Hive, S3, or Kafka
- Perform analytics on batch and streaming data using Structured Streaming
- Build reliable data pipelines with open source Delta Lake and Spark
- Develop machine learning pipelines with MLlib and productionize models using MLflow

The fun and easy way to learn to use this leading business intelligence tool

Written by an author team who is directly involved with SAS, this easy-to-follow guide is fully updated for the latest release of SAS and covers just what you need to put this popular software to work in your business. SAS allows any business or enterprise to improve data delivery, analysis, reporting, movement across a company, data mining, forecasting, statistical analysis, and more. SAS For Dummies, 2nd Edition gives you the necessary background on what SAS can do for you and explains how to use the Enterprise Guide. SAS provides statistical and data analysis tools to help you deal with all kinds of data: operational, financial, performance, and more

Places special emphasis on Enterprise Guide and other analytical tools, covering



all commonly used features Covers all commonly used features and shows you the practical applications you can put to work in your business Explores how to get various types of data into the software and how to work with databases Covers producing reports and Web reporting tools, analytics, macros, and working with your data In the easy-to-follow, no-nonsense For Dummies format, SAS For Dummies gives you the knowledge and the confidence to get SAS working for your organization. Note: CD-ROM/DVD and other supplementary materials are not included as part of eBook file.

Full Coverage of All Exam Objectives for the CEH Exams 312-50 and EC0-350 Thoroughly prepare for the challenging CEH Certified Ethical Hackers exam with this comprehensive study guide. The book provides full coverage of exam topics, real-world examples, and includes a CD with chapter review questions, two full-length practice exams, electronic flashcards, a glossary of key terms, and the entire book in a searchable pdf e-book. What's Inside:

Covers ethics and legal issues, footprinting, scanning, enumeration, system hacking, trojans and backdoors, sniffers, denial of service, social engineering, session hijacking, hacking Web servers, Web application vulnerabilities, and more Walks you through exam topics and includes plenty of real-world scenarios to help reinforce concepts Includes a CD with an assessment test, review

questions, practice exams, electronic flashcards, and the entire book in a searchable pdf

This book describes the essential components of the SCION secure Internet architecture, the first architecture designed foremost for strong security and high availability. Among its core features, SCION also provides route control, explicit trust information, multipath communication, scalable quality-of-service guarantees, and efficient forwarding. The book includes functional specifications of the network elements, communication protocols among these elements, data structures, and configuration files. In particular, the book offers a specification of a working prototype. The authors provide a comprehensive description of the main design features for achieving a secure Internet architecture. They facilitate the reader throughout, structuring the book so that the technical detail gradually increases, and supporting the text with a glossary, an index, a list of abbreviations, answers to frequently asked questions, and special highlighting for examples and for sections that explain important research, engineering, and deployment features. The book is suitable for researchers, practitioners, and graduate students who are interested in network security.

The Hype MachineHow Social Media Disrupts Our Elections, Our Economy, and Our Health--and How We Must AdaptCurrency

Hack your antivirus software to stamp out future vulnerabilities The Antivirus Hacker's Handbook guides you through the process of reverse engineering antivirus software. You explore how to detect and exploit vulnerabilities that can be leveraged to improve future software design, protect your network, and anticipate attacks that may sneak through your antivirus' line of defense. You'll begin building your knowledge by diving into the reverse engineering process, which details how to start from a finished antivirus software program and work your way back through its development using the functions and other key elements of the software. Next, you leverage your new knowledge about software development to evade, attack, and exploit antivirus software—all of which can help you strengthen your network and protect your data. While not all viruses are damaging, understanding how to better protect your computer against them can help you maintain the integrity of your network. Discover how to reverse engineer your antivirus software Explore methods of antivirus software evasion Consider different ways to attack and exploit antivirus software Understand the current state of the antivirus software market, and get recommendations for users and vendors who are leveraging this software The Antivirus Hacker's Handbook is the essential reference for software reverse engineers, penetration testers, security

researchers, exploit writers, antivirus vendors, and software engineers who want to understand how to leverage current antivirus software to improve future applications.

Penetration testers simulate cyber attacks to find security weaknesses in networks, operating systems, and applications. Information security experts worldwide use penetration techniques to evaluate enterprise defenses. In *Penetration Testing*, security expert, researcher, and trainer Georgia Weidman introduces you to the core skills and techniques that every pentester needs. Using a virtual machine–based lab that includes Kali Linux and vulnerable operating systems, you’ll run through a series of practical lessons with tools like Wireshark, Nmap, and Burp Suite. As you follow along with the labs and launch attacks, you’ll experience the key stages of an actual assessment—including information gathering, finding exploitable vulnerabilities, gaining access to systems, post exploitation, and more. Learn how to:

- Crack passwords and wireless network keys with brute-forcing and wordlists
- Test web applications for vulnerabilities
- Use the Metasploit Framework to launch exploits and write your own Metasploit modules
- Automate social-engineering attacks
- Bypass antivirus software
- Turn access to one machine into total control of the enterprise in the post exploitation phase

You’ll even explore writing

your own exploits. Then it's on to mobile hacking—Weidman's particular area of research—with her tool, the Smartphone Pentest Framework. With its collection of hands-on lessons that cover key tools and strategies, Penetration Testing is the introduction that every aspiring hacker needs.

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