

Where To Download Real World Algorithms: A Beginner's Guide

Real World Algorithms: A Beginner's Guide

A relatable, interactive, and funny exploration of

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algorithms, those essential building blocks of computer science - and of everyday life - from the author of the wildly popular Bad Arguments. Algorithms -- processes that are made up of unambiguous steps and do

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something useful -- make up the very foundations of computer science. Yet, they also inform our choices in approaching everyday tasks, from managing a pile of clothes fresh out of the dryer to deciding what music

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to listen to. With Bad Choices, Ali Almosawi, presents twelve scenes from everyday life that help demonstrate and demystify the fundamental algorithms that drive computer science, bringing these seemingly

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elusive concepts into the understandable realms of the everyday. Readers will discover how:

- Matching socks can teach you about search and hash tables*
- Planning trips to the store can demonstrate the value of*

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stacks · Deciding what music to listen to shows why link analysis is all-important · Crafting a succinct Tweet draws on ideas from compression · Making your way through a grocery list helps explain priority

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queues and traversing graphs
· *And more As you better understand algorithms, you'll also discover what makes a method faster and more efficient, helping you become a more nimble, creative problem-solver,*

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ready to face new challenges. Bad Choices will open the world of algorithms to all readers making this a perennial go-to for fans of quirky, accessible science books.

The design and analysis of

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efficient data structures has long been recognized as a key component of the Computer Science curriculum. Goodrich, Tomassia and Goldwasser's approach to this classic topic is based on the object-oriented

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paradigm as the framework of choice for the design of data structures. For each ADT presented in the text, the authors provide an associated Java interface. Concrete data structures realizing the ADTs are

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provided as Java classes implementing the interfaces. The Java code implementing fundamental data structures in this book is organized in a single Java package, net.datastructures. This package forms a coherent

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library of data structures and algorithms in Java specifically designed for educational purposes in a way that is complimentary with the Java Collections Framework.

Business intelligence (BI)

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used to be so simple—in theory anyway. Integrate and copy data from your transactional systems into a specialized relational database, apply BI reporting and query tools and add business users. Job done. No

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longer. Analytics, big data and an array of diverse technologies have changed everything. More importantly, business is insisting on ever more value, ever faster from information and from IT in

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general. An emerging biz-tech ecosystem demands that business and IT work together. Business unIntelligence reflects the new reality that in today's socially complex and rapidly changing world, business

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decisions must be based on a combination of rational and intuitive thinking.

Integrating cues from diverse information sources and tacit knowledge, decision makers create unique meaning to innovate

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heuristically at the speed of thought. This book provides a wealth of new models that business and IT can use together to design support systems for tomorrow's successful organizations. Dr. Barry

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Devlin, one of the earliest proponents of data warehousing, goes back to basics to explore how the modern trinity of information, process and people must be reinvented and restructured to deliver

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the value, insight and innovation required by modern businesses. From here, he develops a series of novel architectural models that provide a new foundation for holistic information use across the

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entire business. From discovery to analysis and from decision making to action taking, he defines a fully integrated, closed-loop business environment. Covering every aspect of business analytics, big

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data, collaborative working and more, this book takes over where BI ends to deliver the definitive framework for information use in the coming years. As the person who defined the conceptual framework and

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physical architecture for data warehousing in the 1980s, Barry Devlin has been an astute observer of the movement he initiated ever since. Now, in Business unIntelligence, Devlin provides a sweeping view of

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the past, present, and future of business intelligence, while delivering new conceptual and physical models for how to turn information into insights and action. Reading Devlin's prose and vision of

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BI are comparable to reading Carl Sagan's view of the cosmos. The book is truly illuminating and inspiring.

*--Wayne Eckerson, President,
BI Leader Consulting Author,
"Secrets of Analytical
Leaders: Insights from*

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Information Insiders"

The true story that inspired the 2020 film. The autobiography of mathematician Stanislaw Ulam, one of the great scientific minds of the twentieth century, tells a

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story rich with amazingly prophetic speculations and peppered with lively anecdotes. As a member of the Los Alamos National Laboratory from 1944 on, Ulam helped to precipitate some of the most dramatic

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changes of the postwar world. He was among the first to use and advocate computers for scientific research, originated ideas for the nuclear propulsion of space vehicles, and made fundamental contributions to

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many of today's most challenging mathematical projects. With his wide-ranging interests, Ulam never emphasized the importance of his contributions to the research that resulted in

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the hydrogen bomb. Now Daniel Hirsch and William Mathews reveal the true story of Ulam's pivotal role in the making of the "Super," in their historical introduction to this behind-the-scenes look at the minds

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and ideas that ushered in the nuclear age. An epilogue by Françoise Ulam and Jan Mycielski sheds new light on Ulam's character and mathematical originality. Design algorithmic solutions for complex and challenging

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real-world problems

Imposing Regulation on

Advanced Algorithms

Real World OCaml

Community-Led Practices to

Build the Worlds We Need

Functional programming for

the masses

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*Machine Learning For
Beginners Guide Algorithms
Beginner's Guide to Code
Algorithms*

Invite in another wonderful year
of kawaii kitties with this
16-month wall calendar featuring

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13 full-color illustrations of lovable kawaii cats in adorable scenes as they have too much fun throughout the year. With a handy page that shows the months of September, October, November, and December 2021,

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followed by individual pages for the months of 2022, this 12" x 12" wall calendar features original kawaii kitten art from popular Instagram artist Bichi Mao (@bichi.mao). Enjoy all the cattitude these quirky kittens give

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off as they swarm your year. These cute feline friends do all sorts of adorable things and will help make 2022 an uplifting year. Aside from being their inspiring selves doing daily activities, these kitties get dolled up for

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their holiday best for Valentine's Day, Saint Patrick's Day, Easter, Halloween, Thanksgiving, and Christmas. Kawaii Kitties 2022 is the perfect gift for the artistic friend, lover of super-cute everything, Japanese culture

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aficionado, or crazy cat lady in your life!

The Self-Taught Computer Scientist is Cory Althoff's follow-up to The Self-Taught Programmer, which inspired hundreds of thousands of

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professionals to learn how to program outside of school. In *The Self-Taught Programmer*, Cory showed readers why you don't need a computer science degree to program professionally and taught the programming

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fundamentals he used to go from a complete beginner to a software engineer at eBay without one. In *The Self-Taught Computer Scientist*, Cory teaches you the computer science concepts that all self-

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taught programmers should understand to have outstanding careers. The Self-Taught Computer Scientist will not only make you a better programmer; it will also help you pass your technical interview: the interview

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all programmers have to pass to land a new job. Whether you are preparing to apply for jobs or sharpen your computer science knowledge, reading *The Self-Taught Computer Scientist* will improve your programming

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career. It's written for complete beginners, so you should have no problem reading it even if you've never studied computer science before.

Dive Into Algorithms is a broad introduction to algorithms using

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the Python Programming Language. Dive Into Algorithms is a wide-ranging, Pythonic tour of many of the world's most interesting algorithms. With little more than a bit of computer programming experience and

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basic high-school math, you'll explore standard computer science algorithms for searching, sorting, and optimization; human-based algorithms that help us determine how to catch a baseball or eat the right amount

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at a buffet; and advanced algorithms like ones used in machine learning and artificial intelligence. You'll even explore how ancient Egyptians and Russian peasants used algorithms to multiply numbers,

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how the ancient Greeks used them to find greatest common divisors, and how Japanese scholars in the age of samurai designed algorithms capable of generating magic squares. You'll explore algorithms that are

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useful in pure mathematics and learn how mathematical ideas can improve algorithms. You'll learn about an algorithm for generating continued fractions, one for quick calculations of square roots, and another for

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generating seemingly random sets of numbers. You'll also learn how to:

- Use algorithms to debug code, maximize revenue, schedule tasks, and create decision trees
- Measure the efficiency and speed of

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algorithms • Generate Voronoi diagrams for use in various geometric applications • Use algorithms to build a simple chatbot, win at board games, or solve sudoku puzzles • Write code for gradient ascent and

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descent algorithms that can find the maxima and minima of functions

- Use simulated annealing to perform global optimization
- Build a decision tree to predict happiness based on a person's characteristics

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Once you've finished this book you'll understand how to code and implement important algorithms as well as how to measure and optimize their performance, all while learning the nitty-gritty details of today's

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most powerful algorithms.

An exploration of how design might be led by marginalized communities, dismantle structural inequality, and advance collective liberation and ecological survival. What is the

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relationship between design, power, and social justice?

“Design justice” is an approach to design that is led by marginalized communities and that aims explicitly to challenge, rather than reproduce, structural

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inequalities. It has emerged from a growing community of designers in various fields who work closely with social movements and community-based organizations around the world. This book explores the

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theory and practice of design justice, demonstrates how universalist design principles and practices erase certain groups of people—specifically, those who are intersectionally disadvantaged or multiply

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burdened under the matrix of domination (white supremacist heteropatriarchy, ableism, capitalism, and settler colonialism)—and invites readers to “build a better world, a world where many worlds fit; linked

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worlds of collective liberation and ecological sustainability.” Along the way, the book documents a multitude of real-world community-led design practices, each grounded in a particular social movement. Design Justice

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goes beyond recent calls for design for good, user-centered design, and employment diversity in the technology and design professions; it connects design to larger struggles for collective liberation and

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ecological survival.

Design Justice

Data Structures & Algorithms in Swift (Fourth Edition)

A Common-Sense Guide to Data Structures and Algorithms

Computational Thinking

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Algorithms Unlocked
Code You Can Believe In
Insight and Innovation beyond
Analytics and Big Data
**An introduction to algorithms
for readers with no
background in advanced**

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mathematics or computer science, emphasizing examples and real-world problems. Algorithms are what we do in order not to have to do something. Algorithms consist of instructions to carry out

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tasks—usually dull, repetitive ones. Starting from simple building blocks, computer algorithms enable machines to recognize and produce speech, translate texts, categorize and summarize documents, describe images,

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and predict the weather. A task that would take hours can be completed in virtually no time by using a few lines of code in a modern scripting program. This book offers an introduction to algorithms through the real-world

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problems they solve. The algorithms are presented in pseudocode and can readily be implemented in a computer language. The book presents algorithms simply and accessibly, without overwhelming readers or

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insulting their intelligence. Readers should be comfortable with mathematical fundamentals and have a basic understanding of how computers work; all other necessary concepts are

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explained in the text. After presenting background in pseudocode conventions, basic terminology, and data structures, chapters cover compression, cryptography, graphs, searching and sorting, hashing, classification,

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strings, and chance. Each chapter describes real problems and then presents algorithms to solve them. Examples illustrate the wide range of applications, including shortest paths as a solution to paragraph line

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breaks, strongest paths in elections systems, hashes for song recognition, voting power Monte Carlo methods, and entropy for machine learning. Real-World Algorithms can be used by students in disciplines from

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economics to applied sciences. Computer science majors can read it before using a more technical text. A comprehensive update of the leading algorithms text, with new material on matchings in bipartite graphs,

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online algorithms, machine learning, and other topics. Some books on algorithms are rigorous but incomplete; others cover masses of material but lack rigor. Introduction to Algorithms uniquely combines rigor and

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comprehensiveness. It covers a broad range of algorithms in depth, yet makes their design and analysis accessible to all levels of readers, with self-contained chapters and algorithms in pseudocode. Since the publication of the

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first edition, Introduction to Algorithms has become the leading algorithms text in universities worldwide as well as the standard reference for professionals. This fourth edition has been updated throughout. New for the

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fourth edition • New chapters on matchings in bipartite graphs, online algorithms, and machine learning • New material on topics including solving recurrence equations, hash tables, potential functions, and suffix arrays •

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140 new exercises and 22 new problems • Reader feedback-informed improvements to old problems • Clearer, more personal, and gender-neutral writing style • Color added to improve visual presentation • Notes,

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**bibliography, and index
updated to reflect
developments in the field •
Website with new
supplementary material
"A staggeringly
comprehensive review of the
state of modern cryptography.**

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Essential for anyone getting up to speed in information security." - Thomas Doylend, Green Rocket Security An all-practical guide to the cryptography behind common tools and protocols that will help you make excellent

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security choices for your systems and applications. In Real-World Cryptography, you will find: Best practices for using cryptography Diagrams and explanations of cryptographic algorithms Implementing digital

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signatures and zero-knowledge proofs Specialized hardware for attacks and highly adversarial environments Identifying and fixing bad practices Choosing the right cryptographic tool for any problem Real-World

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Cryptography reveals the cryptographic techniques that drive the security of web APIs, registering and logging in users, and even the blockchain. You'll learn how these techniques power modern security, and how to

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apply them to your own projects. Alongside modern methods, the book also anticipates the future of cryptography, diving into emerging and cutting-edge advances such as cryptocurrencies, and post-

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quantum cryptography. All techniques are fully illustrated with diagrams and examples so you can easily see how to put them into practice. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats

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from Manning Publications.

About the technology

Cryptography is the essential foundation of IT security. To stay ahead of the bad actors attacking your systems, you need to understand the tools, frameworks, and protocols

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that protect your networks and applications. This book introduces authentication, encryption, signatures, secret-keeping, and other cryptography concepts in plain language and beautiful illustrations. About the book

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Real-World Cryptography teaches practical techniques for day-to-day work as a developer, sysadmin, or security practitioner. There's no complex math or jargon: Modern cryptography methods are explored through

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clever graphics and real-world use cases. You'll learn building blocks like hash functions and signatures; cryptographic protocols like HTTPS and secure messaging; and cutting-edge advances like post-quantum

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cryptography and cryptocurrencies. This book is a joy to read—and it might just save your bacon the next time you're targeted by an adversary after your data. What's inside Implementing digital signatures and zero-

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knowledge proofs Specialized hardware for attacks and highly adversarial environments Identifying and fixing bad practices Choosing the right cryptographic tool for any problem About the reader For cryptography

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beginners with no previous experience in the field. About the author David Wong is a cryptography engineer. He is an active contributor to internet standards including Transport Layer Security.

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tutorial introduces you to functional programming with Haskell. You'll learn how to use Haskell in a variety of practical ways, from short scripts to large and demanding applications. Real World Haskell takes you

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through the basics of functional programming at a brisk pace, and then helps you increase your understanding of Haskell in real-world issues like I/O, performance, dealing with data, concurrency, and more as you move through

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each chapter.

Real-World Python

Introductory Algorithms

Real-World Machine Learning

Nine Algorithms That

Changed the Future

Algorithms For Dummies

Hands-On Artificial

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Intelligence for Beginners Applied Computational Thinking with Python

An accessible introduction to algorithms, explaining not just what they are but how they work, with examples

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from a wide range of application areas. Digital technology runs on algorithms, sets of instructions that describe how to do something efficiently. Application areas

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range from search engines to tournament scheduling, DNA sequencing, and machine learning. Arguing that every educated person today needs to have some understanding of algorithms

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and what they do, in this volume in the MIT Press Essential Knowledge series, Panos Louridas offers an introduction to algorithms that is accessible to the nonspecialist reader.

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Louridas explains not just what algorithms are but also how they work, offering a wide range of examples and keeping mathematics to a minimum. After discussing what an algorithm does and

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how its effectiveness can be measured, Louridas covers three of the most fundamental applications areas: graphs, which describe networks, from eighteenth-century problems

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to today's social networks; searching, and how to find the fastest way to search; and sorting, and the importance of choosing the best algorithm for particular tasks. He then presents

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larger-scale applications: PageRank, Google's founding algorithm; and neural networks and deep learning. Finally, Louridas describes how all algorithms are nothing more than simple

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moves with pen and paper, and how from such a humble foundation rise all their spectacular achievements. Computational thinking (CT) is a timeless, transferable skill that enables you to

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think more clearly and logically, as well as a way to solve specific problems. With this book you'll learn to apply computational thinking in the context of software development to give you a

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head start on the road to becoming an experienced and effective programmer. "This book takes you on a problem-solving journey to expand your mind and increase your willingness to

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experiment with code"--
This book discusses the necessity and perhaps urgency for the regulation of algorithms on which new technologies rely;
technologies that have the

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potential to re-shape human societies. From commerce and farming to medical care and education, it is difficult to find any aspect of our lives that will not be affected by these emerging

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technologies. At the same time, artificial intelligence, deep learning, machine learning, cognitive computing, blockchain, virtual reality and augmented reality, belong to

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the fields most likely to affect law and, in particular, administrative law. The book examines universally applicable patterns in administrative decisions and judicial rulings. First,

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similarities and divergence in behavior among the different cases are identified by analyzing parameters ranging from geographical location and administrative decisions to judicial

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reasoning and legal basis. As it turns out, in several of the cases presented, sources of general law, such as competition or labor law, are invoked as a legal basis, due to the lack of current

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specialized legislation. This book also investigates the role and significance of national and indeed supranational regulatory bodies for advanced algorithms and considers

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ENISA, an EU agency that focuses on network and information security, as an interesting candidate for a European regulator of advanced algorithms. Lastly, it discusses the involvement

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of representative institutions in algorithmic regulation.

Complex Networks

The Self-Taught Computer Scientist

Implementing Practical Data Structures with Swift

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A Beginner's Guide to
Problem-solving and
Programming
Real-World Algorithms
Supervised & Unsupervised
Learning. Decision Tree &
Random Forest Introduction

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The Beginner's Guide to Data Structures & Algorithms

Learn Data Structures &

Algorithms in Swift!

Data structures and algorithms form the basis of computer programming and are the

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starting point for anyone looking to become a software engineer. Choosing the proper data structure and algorithm involves understanding the many details and trade-offs of using them, which can be time-

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consuming to learn - and confusing. This is where this book, *Data Structures & Algorithms in Swift*, comes to the rescue! In this book, you'll learn the nuts and bolts of how fundamental data structures

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and algorithms work by using easy-to-follow tutorials loaded with illustrations; you'll also learn by working in Swift playground code. Who This Book Is For This book is for developers who know the basics of Swift

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syntax and want a better theoretical understanding of what data structures and algorithms are to build more complex programs or ace a whiteboard interview. Topics Covered in Data Structures &

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Algorithms in Swift*Basic data structures and algorithms, including stacks, queues and linked lists. *How protocols can be used to generalize algorithms. *How to leverage the algorithms of the Swift

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standard library with your own data structures. *Trees, tries and graphs. *Building algorithms on top of other primitives. *A complete spectrum of sorting algorithms from simple to advanced. *How to think about

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algorithmic complexity.

*Finding shortest paths, traversals, subgraphs and much more. After reading this book, you'll have a solid foundation on data structures and algorithms and be ready to solve more

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complex problems in your apps elegantly.

A process or set of rules to be followed in calculations or other problem-solving operations, especially by a computer

Key features This book is especially

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designed for beginners and explains all aspects of algorithm and its analysis in a simple and systematic manner. Algorithms and their working are explained in detail with the help of several illustrative examples. Important

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features like greedy algorithm, dynamic algorithm, string matching algorithm, branch and bound algorithm, NP hard and NP complete problems are suitably highlighted. Solved and frequently asked questions in

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the various competitive examinations, sample papers of the past examinations are provided which will serve as a useful reference source.

Description The book has been written in such a way that the

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concepts and working of algorithms are explained in detail, with adequate examples. To make clarity on the topic, diagrams, calculation of complexity, algorithms are given extensively throughout.

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Many examples are provided which are helpful in understanding the algorithms by various strategies. This content is user-focused and has been highly updated including algorithms and their real-world

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examples. What will you learn
Algorithm & Algorithmic
Strategy, Complexity of
Algorithms Divide-and-
Conquer, Greedy, Backtracking,
String-Matching Algorithm
Dynamic Programming, P and

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NP Problems Graph Theory,
Complexity of Algorithms Who
this book is for The book would
serve as an extremely useful text
for BCA, MCA, M. Sc. (Computer
Science), PGDCA, BE
(Information Technology) and B.

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Tech. and M. Tech.

students. Table of contents 1.

Algorithm & Algorithmic

Strategy 2. Complexity of

Algorithms 3. Divide-and-

Conquer Algorithms 4. Greedy

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P and NP ProblemsAbout the
authorShefali Singhal is working
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Computer science and Engineering department, Manav Rachna International University. She has completed her MTech. form YMCA University in Computer Engineering. Her research interest includes

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Programming Languages, Computer Network, Data mining, and Theory of computation. Neha Garg is working as an Assistant professor in in Computer science and Engineering

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department, Manav Rachna International University. She has completed her MTech. Form Banasthali University, Rajasthan in Information Technology. Her research interest includes Programming Languages, Data

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Structure, Operating System, Database Management Systems.

Nine revolutionary algorithms that power our computers and smartphones Every day, we use our computers to perform

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remarkable feats. A simple web search picks out a handful of relevant needles from the world's biggest haystack. Uploading a photo to Facebook transmits millions of pieces of information over numerous

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error-prone network links, yet somehow a perfect copy of the photo arrives intact. Without even knowing it, we use public-key cryptography to transmit secret information like credit card numbers, and we use

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digital signatures to verify the identity of the websites we visit. How do our computers perform these tasks with such ease? John MacCormick answers this question in language anyone can understand, using vivid

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examples to explain the fundamental tricks behind nine computer algorithms that power our PCs, tablets, and smartphones.

Applied Computational Thinking with Python provides a

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hands-on approach to implementation and associated methodologies that will have you up-and-running, and productive in no time.

Developers working with Python will be able to put their

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knowledge to work with this practical guide using the computational thinking method for problem-solving.

A Beginner's Guide

16-Month Calendar - September 2021 Through December 2022

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9th International Symposium on Leveraging Applications of Formal Methods, ISoLA 2020, Rhodes, Greece, October 20–30, 2020, Proceedings, Part I

How Algorithms Can Help You

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Think Smarter and Live Happier

The Power of Networks

A Problem-Based Introduction

A Pythonic Adventure for the
Intrepid Beginner

Summary Grokking Algorithms is a
fully illustrated, friendly guide that

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teaches you how to apply common algorithms to the practical problems you face every day as a programmer. You'll start with sorting and searching and, as you build up your skills in thinking algorithmically, you'll tackle more complex concerns such as data

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compression and artificial intelligence. Each carefully presented example includes helpful diagrams and fully annotated code samples in Python. Learning about algorithms doesn't have to be boring! Get a sneak peek at the fun, illustrated, and friendly

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examples you'll find in Grokking Algorithms on Manning Publications' YouTube channel. Continue your journey into the world of algorithms with Algorithms in Motion, a practical, hands-on video course available exclusively at Manning.com ([www.man](http://www.manning.com)

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ning.com/livevideo/algorithms-?in-motion). Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology An algorithm is nothing more than a step-by-step procedure for solving a

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problem. The algorithms you'll use most often as a programmer have already been discovered, tested, and proven. If you want to understand them but refuse to slog through dense multipage proofs, this is the book for you. This fully illustrated and engaging

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practical programming problems you face every day. You'll start with tasks like sorting and searching. As you build up your skills, you'll tackle more complex problems like data compression and artificial intelligence. Each carefully presented example

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includes helpful diagrams and fully annotated code samples in Python. By the end of this book, you will have mastered widely applicable algorithms as well as how and when to use them. What's Inside Covers search, sort, and graph algorithms Over 400 pictures

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with detailed walkthroughs
Performance trade-offs between algorithms
Python-based code samples
About the Reader This easy-to-read, picture-heavy introduction is suitable for self-taught programmers, engineers, or anyone who wants to

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brush up on algorithms. About the Author Aditya Bhargava is a Software Engineer with a dual background in Computer Science and Fine Arts. He blogs on programming at adit.io.
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Introduction to algorithms
Selection sort
Recursion
Quicksort

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Hash tables Breadth-first search
Dijkstra's algorithm Greedy algorithms
Dynamic programming K-nearest
neighbors
Network science is a rapidly emerging
field of study that encompasses
mathematics, computer science,

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physics, and engineering. A key issue in the study of complex networks is to understand the collective behavior of the various elements of these networks. Although the results from graph theory have proven to be powerful in investigating the structures of complex

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networks, few books focus on the algorithmic aspects of complex network analysis. Filling this need, *Complex Networks: An Algorithmic Perspective* supplies the basic theoretical algorithmic and graph theoretic knowledge needed by every

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researcher and student of complex networks. This book is about specifying, classifying, designing, and implementing mostly sequential and also parallel and distributed algorithms that can be used to analyze the static properties of complex

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networks. Providing a focused scope which consists of graph theory and algorithms for complex networks, the book identifies and describes a repertoire of algorithms that may be useful for any complex network. Provides the basic background in terms

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of graph theory Supplies a survey of the key algorithms for the analysis of complex networks Presents case studies of complex networks that illustrate the implementation of algorithms in real-world networks, including protein interaction networks,

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social networks, and computer networks Requiring only a basic discrete mathematics and algorithms background, the book supplies guidance that is accessible to beginning researchers and students with little background in complex

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networks. To help beginners in the field, most of the algorithms are provided in ready-to-be-executed form. While not a primary textbook, the author has included pedagogical features such as learning objectives, end-of-chapter summaries, and review

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questions

"In this book, Andy Baxevanis and Francis Ouellette . . . have undertaken the difficult task of organizing the knowledge in this field in a logical progression and presenting it in a digestible form. And they have done an

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excellent job. This fine text will make a major impact on biological research and, in turn, on progress in biomedicine. We are all in their debt." —Eric Lander from the Foreword

Reviews from the First Edition

"...provides a broad overview of the

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basic tools for sequenceanalysis ... For biologists approaching this subject for the firsttime, it will be a very useful handbook to keep on the shelf afterthe first reading, close to the computer."
—Nature Structural Biology "...should be in the personal library of any

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biologist who uses the Internet for the analysis of DNA and protein sequencedata." —Science "...a wonderful primer designed to navigate the novice through the intricacies of in scripto analysis ... The accomplished genesearcher will also find this book a

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useful addition to their library ... an excellent reference to the principles of bioinformatics." —Trends in Biochemical Sciences This new edition of the highly successful Bioinformatics: A Practical Guide to the Analysis of Genes and

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Proteins provides a sound foundation of basic concepts, with practical discussions and comparisons of both computational tools and databases relevant to biological research. Equipping biologists with the modern tools necessary to

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solve practical problems in sequence data analysis, the Second Edition covers the broad spectrum of topics in bioinformatics, ranging from Internet concepts to predictive algorithms used on sequence, structure, and expression data. With chapters

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written by experts in the field, this up-to-date reference thoroughly covers vital concepts and is appropriate for both the novice and the experienced practitioner. Written in clear, simple language, the book is accessible to users without an

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Web resources New coverage of comparative genomics, large-scale genome analysis, sequence assembly, and expressed sequence tags A glossary of commonly used terms in bioinformatics and genomics

Bioinformatics: A Practical Guide to

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the Analysis of Genes and Proteins, Second Edition is essential reading for researchers, instructors, and students of all levels in molecular biology and bioinformatics, as well as for investigators involved in genomics, positional cloning, clinical

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research, and computational biology. An introduction to a broad range of topics in deep learning, covering mathematical and conceptual background, deep learning techniques used in industry, and research perspectives. "Written by three experts

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in the field, Deep Learning is the only comprehensive book on the subject.”
—Elon Musk, cochair of OpenAI;
cofounder and CEO of Tesla and
SpaceX Deep learning is a form of
machine learning that enables
computers to learn from experience

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and understand the world in terms of a hierarchy of concepts. Because the computer gathers knowledge from experience, there is no need for a human computer operator to formally specify all the knowledge that the computer needs. The hierarchy of

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concepts allows the computer to learn complicated concepts by building them out of simpler ones; a graph of these hierarchies would be many layers deep. This book introduces a broad range of topics in deep learning. The text offers mathematical and

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conceptual background, covering relevant concepts in linear algebra, probability theory and information theory, numerical computation, and machine learning. It describes deep learning techniques used by practitioners in industry, including

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deep feedforward networks, regularization, optimization algorithms, convolutional networks, sequence modeling, and practical methodology; and it surveys such applications as natural language processing, speech recognition,

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computer vision, online recommendation systems, bioinformatics, and videogames. Finally, the book offers research perspectives, covering such theoretical topics as linear factor models, autoencoders, representation learning,

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structured probabilistic models, Monte Carlo methods, the partition function, approximate inference, and deep generative models. Deep Learning can be used by undergraduate or graduate students planning careers in either industry or research, and by software

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Introduction to Algorithms, fourth edition

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pace, and then helps you explore the tools and techniques that make OCaml an effective and practical tool. In the book's third section, you'll delve deep into the details of the compiler toolchain and OCaml's simple and efficient runtime system. Learn the

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foundations of the language, such as higher-order functions, algebraic data types, and modules Explore advanced features such as functors, first-class modules, and objects Leverage Core, a comprehensive general-purpose standard library for OCaml Design

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***deep learning concepts Book
Description Virtual Assistants, such
as Alexa and Siri, process our
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the most exciting technologies and is becoming increasingly significant in the modern world. Hands-On Artificial Intelligence for Beginners will teach you what Artificial Intelligence is and how to design and build intelligent applications. This book will teach you to harness

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packages such as TensorFlow in order to create powerful AI systems. You will begin with reviewing the recent changes in AI and learning how artificial neural networks (ANNs) have enabled more intelligent AI. You'll explore feedforward, recurrent,

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convolutional, and generative neural networks (FFNNs, RNNs, CNNs, and GNNs), as well as reinforcement learning methods. In the concluding chapters, you'll learn how to implement these methods for a variety of tasks, such as generating text for chatbots, and

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playing board and video games. By the end of this book, you will be able to understand exactly what you need to consider when optimizing ANNs and how to deploy and maintain AI applications. What you will learn Use TensorFlow packages to create AI systems Build

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feedforward, convolutional, and recurrent neural networks
Implement generative models for text generation
Build reinforcement learning algorithms to play games
Assemble RNNs, CNNs, and decoders to create an intelligent assistant
Utilize RNNs to predict

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stock market behavior Create and scale training pipelines and deployment architectures for AI systems Who this book is for This book is designed for beginners in AI, aspiring AI developers, as well as machine learning enthusiasts with an interest in leveraging

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various algorithms to build powerful AI applications.

What makes WiFi faster at home than at a coffee shop? How does Google order search results? Is it really true that everyone on Facebook is connected by six steps or less? The Power of Networks

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answers questions like these for the first time in a way that all of us can understand. Using simple language, analogies, stories, hundreds of illustrations, and no more math than simple addition and multiplication, Christopher Brinton and Mung Chiang provide a smart

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and accessible introduction to the handful of big ideas that drive the computer networks we use every day. The Power of Networks unifies these ideas through six fundamental principles of networking. These principles explain the difficulties in sharing

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network resources efficiently, how crowds can be wise or not so wise depending on the nature of their connections, why there are many layers in a network, and more. Along the way, the authors also talk with and share the special insights of renowned experts such as

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Google's Eric Schmidt, former Verizon Wireless CEO Dennis Strigl, and "fathers of the Internet" Vint Cerf and Bob Kahn.

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Analysis and Design of Algorithms

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The Ingenious Ideas That Drive Today's Computers

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college textbook on the subject—provides a general explanation, with limited mathematics, of how algorithms enable computers to solve problems. Readers will learn what computer algorithms are,

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how to describe them, and how to evaluate them. They will discover simple ways to search for information in a computer; methods for rearranging information in a computer into a prescribed order (“sorting”); how

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to solve basic problems that can be modeled in a computer with a mathematical structure called a “graph” (useful for modeling road networks, dependencies among tasks, and financial relationships); how to solve

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problems that ask questions about strings of characters such as DNA structures; the basic principles behind cryptography; fundamentals of data compression; and even that there are some problems that no

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one has figured out how to solve on a computer in a reasonable amount of time.

Machines can LEARN ?!?!

Machine learning occurs primarily through the use of "algorithms" and other elaborate

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procedures Whether you're a novice, intermediate or expert this book will teach you all the ins, outs and everything you need to know about machine learning Note: Bonus chapters included inside! Instead of

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today's web and mobile apps. This book takes a practical approach to data structures and algorithms, with techniques and real-world scenarios that you can use in your daily production code. Graphics and examples

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make these computer science concepts understandable and relevant. You can use these techniques with any language; examples in the book are in JavaScript, Python, and Ruby. Use Big O notation, the primary

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tool for evaluating algorithms, to measure and articulate the efficiency of your code, and modify your algorithm to make it faster. Find out how your choice of arrays, linked lists, and hash tables can dramatically affect the

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code you write. Use recursion to solve tricky problems and create algorithms that run exponentially faster than the alternatives. Dig into advanced data structures such as binary trees and graphs to help scale specialized

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applications such as social networks and mapping software. You'll even encounter a single keyword that can give your code a turbo boost. Jay Wengrow brings to this book the key teaching practices he developed

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as a web development bootcamp founder and educator. Use these techniques today to make your code faster and more scalable. "

An illustrated guide for programmers and other curious people

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Bioinformatics

Adventures of a Mathematician

Deep Learning

A Problem-Solver's Guide to

Building Real-World Intelligent

Systems

An introduction to AI concepts,

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algorithms, and their
implementation

Leveraging Applications of
Formal Methods, Verification and
Validation: Verification Principles

*Discover how algorithms
shape and impact our*

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*digital world All data,
big or small, starts
with algorithms.*

*Algorithms are
mathematical equations
that determine what we
see—based on our likes,*

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dislikes, queries, views, interests, relationships, and more-online. They are, in a sense, the electronic gatekeepers to our digital, as well

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*as our physical, world.
This book demystifies
the subject of
algorithms so you can
understand how important
they are business and
scientific decision*

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making. Algorithms for Dummies is a clear and concise primer for everyday people who are interested in algorithms and how they impact our digital lives. Based on

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the fact that we already live in a world where algorithms are behind most of the technology we use, this book offers eye-opening information on the pervasiveness and

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importance of this mathematical science—how it plays out in our everyday digestion of news and entertainment, as well as in its influence on our social

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behind algorithms Get
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*appearing on your
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integral realm of math,*

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think through intriguing
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outbreak using data
science • Discover
exoplanets and alien
megastructures orbiting
distant stars • Test the*

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*hypothesis that we're
all living in a computer
simulation • And more!*

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learning the bare
essentials of Python
Programming with*

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isolated snippets of code, you'll relish the relevant and geeky fun of Real-World Python!

Summary Real-World Machine Learning is a practical guide designed

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to teach working developers the art of ML project execution.

Without overdosing you on academic theory and complex mathematics, it introduces the day-to-

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day practice of machine learning, preparing you to successfully build and deploy powerful ML systems. Purchase of the print book includes a free eBook in PDF,

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make fact-based recommendations. It's a hot and growing field, and up-to-speed ML developers are in demand. About the Book Real-World Machine

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complex mathematics. By working through immediately relevant examples in Python, you'll build skills in data acquisition and modeling,

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classification, and regression. You'll also explore the most important tasks like model validation, optimization, scalability, and real-

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time streaming. When you're done, you'll be ready to successfully build, deploy, and maintain your own powerful ML systems.

What's Inside Predicting

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future behavior

*Performance evaluation
and optimization*

*Analyzing sentiment and
making recommendations*

About the Reader No

prior machine learning

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*experience assumed.
Readers should know
Python. About the
Authors Henrik Brink,
Joseph Richards and Mark
Fetherolf are
experienced data*

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scientists engaged in the daily practice of machine learning. Table of Contents PART 1: THE MACHINE-LEARNING WORKFLOW What is machine learning? Real-world

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*data Modeling and
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evaluation and
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2: PRACTICAL APPLICATION
Example: NYC taxi data*

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*Advanced feature
engineering Advanced NLP
example: movie review
sentiment Scaling
machine-learning
workflows Example:
digital display*

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advertising

Despite growing

interest, basic

information on methods

and models for

mathematically analyzing

algorithms has rarely

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been directly accessible to practitioners, researchers, or students. An Introduction to the Analysis of Algorithms, Second Edition,
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organizes and presents that knowledge, fully introducing primary techniques and results in the field. Robert Sedgewick and the late Philippe Flajolet have

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*drawn from both
classical mathematics
and computer science,
integrating discrete
mathematics, elementary
real analysis,
combinatorics,*

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algorithms, and data structures. They emphasize the mathematics needed to support scientific studies that can serve as the basis for

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predicting algorithm performance and for comparing different algorithms on the basis of performance.

Techniques covered in the first half of the

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*book include
recurrences, generating
functions, asymptotics,
and analytic
combinatorics.*

*Structures studied in
the second half of the*

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book include permutations, trees, strings, tries, and mappings. Numerous examples are included throughout to illustrate applications to the

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*analysis of algorithms
that are playing a
critical role in the
evolution of our modern
computational
infrastructure.*

Improvements and

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additions in this new edition include Upgraded figures and code An all-new chapter introducing analytic combinatorics Simplified derivations via analytic

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*combinatorics throughout
The book's thorough,
self-contained coverage
will help readers
appreciate the field's
challenges, prepare them
for advanced*

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results—covered in their monograph Analytic Combinatorics and in Donald Knuth's The Art of Computer Programming books—and provide the background they need to

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keep abreast of new research. "[Sedgewick and Flajolet] are not only worldwide leaders of the field, they also are masters of exposition. I am sure

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that every serious computer scientist will find this book rewarding in many ways." —From the Foreword by Donald E.

Knuth

Bad Choices

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An Algorithmic

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A Practical Guide to the

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The three-volume set LNCS
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Applications of Formal Methods, ISoLA 2020, which was planned to take place during October 20–30, 2020, on Rhodes, Greece. The event itself was postponed to 2021 due to

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the COVID-19 pandemic. The papers presented were carefully reviewed and selected for inclusion in the proceedings. Each volume focusses on an individual topic with

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topical section headings
within the volume: Part I,
Verification Principles:
Modularity and
(De-)Composition in
Verification; X-by-
Construction: Correctness

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meets Probability; 30
Years of Statistical Model
Checking; Verification and
Validation of Concurrent
and Distributed Systems.
Part II, Engineering
Principles: Automating

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Software Re-Engineering;
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Challenges and Future Directions; Automated Verification of Embedded Control Software; Formal methods for DIStributed COmputing in future RAILway systems.

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routes between two locations • The union-find data structure to answer questions about connections in a social network or determine who are friends or enemies •

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The heap data structure to determine the amount of money given away in a promotion • The hash-table data structure to determine whether snowflakes are unique or

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