

Real World Algorithms A Beginners Guide

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Real-World Python - Lee

Vaughan 2020-11-10

A project-based approach to learning Python programming for beginners. Intriguing projects teach you how to tackle challenging problems with code. You've mastered the basics. Now you're ready to explore some of Python's more powerful tools. Real-World Python will show you how. Through a series of hands-on projects, you'll investigate and solve real-world problems using sophisticated computer

vision, machine learning, data analysis, and language processing tools. You'll be introduced to important modules like OpenCV, NumPy, Pandas, NLTK, Bokeh, Beautiful Soup, Requests, HoloViews, Tkinter, turtle, matplotlib, and more. You'll create complete, working programs and think through intriguing projects that show you how to:

- Save shipwrecked sailors with an algorithm designed to prove the existence of God
- Detect

asteroids and comets moving against a starfield • Program a sentry gun to shoot your enemies and spare your friends • Select landing sites for a Mars probe using real NASA maps • Send unbreakable messages based on a book code • Survive a zombie outbreak using data science • Discover exoplanets and alien megastructures orbiting distant stars • Test the hypothesis that we're all living in a computer simulation • And more! If you're tired of learning the bare essentials of Python Programming with isolated snippets of code, you'll relish the relevant and geeky fun of Real-World Python!

Algorithms Unlocked -

Thomas H. Cormen 2013-03-01

For anyone who has ever wondered how computers solve problems, an engagingly written guide for nonexperts to the basics of computer algorithms. Have you ever wondered how your GPS can find the fastest way to your destination, selecting one route from seemingly countless possibilities in mere seconds?

How your credit card account number is protected when you make a purchase over the Internet? The answer is algorithms. And how do these mathematical formulations translate themselves into your GPS, your laptop, or your smart phone? This book offers an engagingly written guide to the basics of computer algorithms. In *Algorithms Unlocked*, Thomas Cormen—coauthor of the leading 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, 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 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

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

Real-World Algorithms - Panos Louridas 2017-03-17

An introduction to algorithms for readers with no background in advanced 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 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, 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 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 insulting their intelligence. Readers should be comfortable with mathematical fundamentals and have a basic understanding of how computers work; all other necessary concepts are 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, 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

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 economics to applied sciences. Computer science majors can read it before using a more technical text.

[Introduction to Algorithms, fourth edition](#) - Thomas H. Cormen 2022-04-05

A comprehensive update of the leading algorithms text, with new material on matchings in bipartite graphs, 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 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 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 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 • 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, bibliography, and index updated to reflect developments in the field • Website with new supplementary material

Python for Beginners - Hacktech Academy 2021-03-16
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curious about learning what artificial intelligence is? Do you want to master the Python programming language? Well, this book is your best choice! Learning to code is essential to keep up with the times, increasing the opportunities that life has to offer you. Whether you are a tech enthusiast, enterprising student, or entrepreneur, if you choose to learn Python you are making the right and winning choice. Web development? Artificial intelligence? Automation and IoT? Python is all of this and more! Did you know that Python is one of the languages behind extremely popular services and websites like Instagram, YouTube, Reddit, and Mozilla? In this book, you will: Clearly and Easily Understand What Python Is and How It Works, starting from the instructions to correctly install it on your PC to show you how it runs and works. Discover Secret Tips and Tricks to Get Started with Python for Beginners to enhance your skills and help you with daily data science

tasks. If you want to make your Python coding more efficient, do not miss these tips/tricks! Learn the Best Machine Learning Algorithms for Beginners with Coding Samples in Python; it is excellent for algorithmic design, as it is used extensively in data science and machine learning technologies. Learn How Python Makes Decisions to Control Flow in Programming. It is crucial to control the program execution because, in real scenarios, the situations are full of conditions, and if you want your program to mimic the real world closer, then you need to transform those real-world situations into your program. ... & Lot More! Your Customers will never stop using this book. Python was designed not only to be simple to understand but also fun to use. You can create prototypes and mini-programs very quickly, to immediately experience real satisfaction. It is thanks to this simplicity that it has gained not only a great deal of popularity but also a reputation as an "easy to learn

language". You have only to click on the BUY NOW button Order Your Copy Now to Make Your Customer Starting Coding like a PRO!

Machine Learning for Absolute Beginners - Oliver Theobald 2018

"The manner in which computers are now able to mimic human thinking to process information is rapidly exceeding human capabilities in everything from chess to picking the winner of a song contest. In the modern age of machine learning, computers do not strictly need to receive an 'input command' to perform a task, but rather 'input data'. From the input of data they are able to form their own decisions and take actions virtually as a human world. But given it is a machine, it can consider many more scenarios and execute far more complicated calculations to solve complex problems. This is the element that excites data scientists and machine learning engineers the most. The ability to solve complex problems never before attempted. This

book will dive in to introduce machine learning, and is ideal for beginners starting out in machine learning."--page 4 of cover.

Grokking Algorithms - Aditya Bhargava 2016-05-12
Summary Grokking Algorithms is a fully illustrated, friendly guide that 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 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 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.manning.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 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 guide makes it easy to learn how to use the most important algorithms effectively in your own programs. About the Book Grokking Algorithms is a friendly take on this core computer science topic. In it, you'll learn how to apply common algorithms to the 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 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 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 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. Table of Contents Introduction to algorithms Selection sort Recursion Quicksort Hash tables Breadth-first search Dijkstra's algorithm Greedy algorithms Dynamic

programming K-nearest neighbors

Machine Learning for Beginners - Jason Scott
2020-01-16

Machine learning is one of the most difficult fields of data science. So if you want to understand more in depth the basics of Machine Learning, then keep reading! This guide has been designed to help you in understanding of machine learning, artificial intelligence and big data in a simple way. With Machine Learning for beginners you will discover: The basics of Machine Learning in detail Why it is important and the many benefits that it provides Some of the recent applications of Machine Learning to the real world; Interesting notes on Artificial Intelligence and Deep Learning Machine Learning and implementations of Artificial Intelligence, Neural Networks, Big Data Analytics and Deep Learning How Artificial intelligence and Machine Learning approaches will definitely help in bringing positive changes to our daily

lives ...and many more amazing and interesting topics! This basic guide is dedicated for people looking to understand the basics of Machine Learning, not only from the beginners' viewpoint. If you want to know more about how these machine learning algorithms work, this is a good book for you! Scroll to the top of the page and click the "buy now" button!

Python - Code Well Academy
2015-09-08

Learn Python STRAIGHT from the Masters! " I found this book to be very easy to follow and well-written. The author speaks to beginners such as myself and I learned a lot that I didn't know before. " - S. Hendricks, from Amazon.com " I liked how this book explained the language for starters, it was simple to understand. " - Cathy, from Amazon.com " I always thought Python was be a tough language to master, but this book proved me so wrong. " - Aaron Parker, from Amazon.com Do you want an EASIER, faster learning experience in coding? Are you

ready to start a FULFILLING career in Programming? Crafted by some of the best minds who have studied in some of the world's top universities, You're among one of the best learning programs out there. But are you paying THOUSANDS of dollars just to learn how to code well? NO! Hundreds? Not even close. Within this book's pages, you'll find GREAT coding skills to learn - and more. Just some of the questions and topics include: - Certain mistakes in your code you DON'T want to commit... - How to make PROPER data structures (other books don't teach you this way...) - How to make PROPER Functions (other books don't teach you this way either...) - REAL coding workshops to test your new skills... - How to Change your Data without causing errors in your code (IMPORTANT!) and Much, much more! World-Class Training This book breaks your training down into easy-to-understand modules. It starts from the very essentials of data structures and functions, so

you can write great code - even as a beginner!

Algorithms - Panos Louridas
2020-08-18

An accessible introduction to algorithms, explaining not just what they are but how they work, with examples from a wide range of application areas. Digital technology runs on algorithms, sets of instructions that describe how to do something efficiently. Application areas 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 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. 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 how its

effectiveness can be measured, Louridas covers three of the most fundamental applications areas: graphs, which describe networks, from eighteenth-century problems 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 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 moves with pen and paper, and how from such a humble foundation rise all their spectacular achievements.

Computational Thinking - Karl Beecher 2017-08-11

Computational thinking (CT) is a timeless, transferable skill that enables you to 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 head start on the road to

becoming an experienced and effective programmer.

[Machine Learning for Beginners](#) - Oliver Tensor 2019-07-26

If you have ever wondered what drives the many tools we use every day, then keep reading. The Fourth Industrial Revolution is led by Artificial Intelligence technology and setting the humankind for a global social transformation. The powerful applications of AI have already transformed our daily lives. Tools such as virtual personal and home assistants (like Siri in Apple Pods and Alexa in Amazon Echo) have become everyday usage products. Artificial Intelligence and Machine Learning are closely related. They have become an important part of scientific study. Not only does it involve the study of statistical models and algorithms, but also the systems used for task performance. Our aim with this book is to provide you a 360 view of the fundamentals and importance of Machine Learning Technology for the

beginners' level. You Will Learn: The Fundamentals and Concepts of Artificial Intelligence in 2020 The Technology behind AI, and its Rapid growth and Evolution The Advantages and Disadvantages of Artificial Intelligence How AI Helps Business The Importance of Deep Learning Today How the Fields of Data Science and Its Many Applications Helps Your Business Computer Science and Its Applications in Real World Basic Terminology Used in Artificial Intelligence As we cover the basics of Machine Learning and Artificial Intelligence, you will be glad to know that it can be understood and processed on the beginners' level. Even though it may seem to have some big words. Would You Like to Know More? Download Now to know how Machine Learning is changing our world. Scroll to the top of the page and select the BUY NOW button

Machine Learning with R Quick Start Guide - Iván

Pastor Sanz 2019-03-29

This book is ideal for people

wanting to get up-and-running with the core concepts of machine learning using R 3.5. This book follows a step-by-step approach to implementing an end-to-end pipeline, addressing data collection and processing, various types of data analysis, and machine learning use cases.

Machine Learning for Beginners - Oliver Tensor 2020-10-13

If you have ever wondered what drives the many tools we use every day, then keep reading. The Fourth Industrial Revolution is led by Artificial Intelligence technology and setting the humankind for a global social transformation. The powerful applications of AI have already transformed our daily lives. Tools such as virtual personal and home assistants (like Siri in Apple Pods and Alexa in Amazon Echo) have become everyday usage products. Artificial Intelligence and Machine Learning are closely related. They have become an important part of scientific study. Not only does it involve the study of

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statistical models and algorithms, but also the systems used for task performance. Our aim with this book is to provide you a 360 view of the fundamentals and importance of Machine Learning Technology for the beginners' level. You Will Learn: The Fundamentals and Concepts of Artificial Intelligence in 2020 The Technology behind AI, and its Rapid growth and Evolution The Advantages and Disadvantages of Artificial Intelligence How AI Helps Business The Importance of Deep Learning Today How the Fields of Data Science and Its Many Applications Helps Your Business Computer Science and Its Applications in Real World Basic Terminology Used in Artificial Intelligence As we cover the basics of Machine Learning and Artificial Intelligence, you will be glad to know that it can be understood and processed on the beginners' level. Even though it may seem to have some big words. Would You Like to Know More? Get This book Today to

know how Machine Learning is changing our world.

Business unIntelligence - Dr. Barry Devlin 2013-10-01 Business intelligence (BI) 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 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 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 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 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 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 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 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 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 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 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 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 Information Insiders"

The Beginner's Guide to Data Science - Robert Ball
2022-12-17

This book discusses the principles and practical applications of data science, addressing key topics including data wrangling, statistics, machine learning, data

visualization, natural language processing and time series analysis. Detailed investigations of techniques used in the implementation of recommendation engines and the proper selection of metrics for distance-based analysis are also covered. Utilizing numerous comprehensive code examples, figures, and tables to help clarify and illuminate essential data science topics, the authors provide an extensive treatment and analysis of real-world questions, focusing especially on the task of determining and assessing answers to these questions as expeditiously and precisely as possible. This book addresses the challenges related to uncovering the actionable insights in “big data,” leveraging database and data collection tools such as web scraping and text identification. This book is organized as 11 chapters, structured as independent treatments of the following crucial data science topics: Data gathering and acquisition techniques including data

creation Managing, transforming, and organizing data to ultimately package the information into an accessible format ready for analysis Fundamentals of descriptive statistics intended to summarize and aggregate data into a few concise but meaningful measurements Inferential statistics that allow us to infer (or generalize) trends about the larger population based only on the sample portion collected and recorded Metrics that measure some quantity such as distance, similarity, or error and which are especially useful when comparing one or more data observations Recommendation engines representing a set of algorithms designed to predict (or recommend) a particular product, service, or other item of interest a user or customer wishes to buy or utilize in some manner Machine learning implementations and associated algorithms, comprising core data science technologies with many practical applications,

especially predictive analytics
Natural Language Processing,
which expedites the parsing
and comprehension of written
and spoken language in an
effective and accurate manner
Time series analysis,
techniques to examine and
generate forecasts about the
progress and evolution of data
over time Data science
provides the methodology and
tools to accurately interpret an
increasing volume of incoming
information in order to discern
patterns, evaluate trends, and
make the right decisions. The
results of data science analysis
provide real world answers to
real world questions.
Professionals working on data
science and business
intelligence projects as well as
advanced-level students and
researchers focused on data
science, computer science,
business and mathematics
programs will benefit from this
book.

[Grokking Algorithms](#) - Dylan
Christian 2022-09-03

Gain a broader understanding
of Algorithms and their role in
everyday life. Have you ever

asked yourself why you need to
learn Algorithms? What is their
use in our daily life? Have you
ever wondered how learning
Algorithms can benefit you?
Whether you're a newbie or a
seasoned veteran, this book is
designed to be easy to follow.
There are no big leaps of
thought, and any time a new
concept is introduced, it is
explained right away. This
book is written in a friendly
tone that explains exactly what
you need to know without
overcomplicating things. This
book is a quantum leap forward
from other machine learning
books on the market. It is
written for beginners but
includes more technical
information for people
interested in diving deeper into
the field. If you're just starting
out with machine learning, this
book will help you get up to
speed quickly by giving you
some background knowledge,
providing concrete examples,
and guiding you towards
solving problems of your own.
However, even experienced
data scientists can benefit from
some of the examples and

applications in this book In this book, you will: Learn the different types of Algorithms and how they work Learn about the practical uses of Algorithms Get background knowledge about Algorithms with concrete examples Master Selection sort and Recursion Discover Quicksort with real-life examples Learn about Hashtags and why they are useful Discover Breadth-first search and Dijkstra's algorithm Master dynamic programming Extra care is taken to curate the contents of this book. It doesn't include every sorting algorithm-you can find an excellent introduction to them online. It includes only algorithms that are practical, widely used, and not too easy. Don't wait another second; click the "Add to Cart" button now and start working with algorithms.

Python Machine Learning For Beginners 2021 - Steven Williams 2020-12-05

If you want to learn how to design and master different Machine Learning algorithms quickly and easily, then keep

reading. We live in a world of data deluge where gigabytes of data are generated daily. It is possible that this data might not be very useful for our daily applications. Major setbacks in the use of such data may be due to the presence of loopholes in data links previously generated or the data might be too vast for the limited human mind. Machine learning in this book presents some of the solutions to the problems above. Being an introductory guide, expect to learn the various basics involved in Machine Learning and Python. This book provides an insight into the new world of big data, then behooves you to learn more about Machine Learning. With a detailed and concise overview of the fundamentals, along with the challenges and limitations currently being tackled by the pros, inside this comprehensive guide you will Learn the Fundamentals of Machine Learning which Are Being Developed and Advanced with Python What is Machine Learning and how it is applied

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in real-world situations Algorithms, in a Language that Requires No Prior Background in Python Discover best practices for evaluating and tuning models Discover the Details of the Supervised, Unsupervised, and Reinforcement Algorithms, which Serve as the Skeleton of Hundreds of Machine Learning Algorithms Being Developed Every Day Become Familiar with Data Science Technology, an Umbrella Term Used for the Cutting-Edge Technologies of Today Understand the Entire Process of Creating Neural Network Models on TensorFlow, Using Open Source Data Sets and real Python Code Uncover the Secrets of the Most Critical Aspect of Developing a Machine Learning Model - Data Pre-Processing and Training/Testing Subsets Artificial Neural Networks And Much More! So what are you waiting for? Even if some concepts of Machine Learning algorithms can appear complex to most computer programming beginners, this

book takes the time to explain them in a simple and concise way. Would You Like To Know More? Scroll up and click on the BUY NOW button to get your copy now!

Algorithms to Live By - Brian Christian 2016-04-19

'Algorithms to Live By' looks at the simple, precise algorithms that computers use to solve the complex 'human' problems that we face, and discovers what they can tell us about the nature and origin of the mind.

Parallel Genetic Algorithms

- Gabriel Luque 2011-06-15

This book is the result of several years of research trying to better characterize parallel genetic algorithms (pGAs) as a powerful tool for optimization, search, and learning. Readers can learn how to solve complex tasks by reducing their high computational times. Dealing with two scientific fields (parallelism and GAs) is always difficult, and the book seeks at gracefully introducing from basic concepts to advanced topics. The presentation is structured in three parts. The first one is targeted to the

algorithms themselves, discussing their components, the physical parallelism, and best practices in using and evaluating them. A second part deals with the theory for pGAs, with an eye on theory-to-practice issues. A final third part offers a very wide study of pGAs as practical problem solvers, addressing domains such as natural language processing, circuits design, scheduling, and genomics. This volume will be helpful both for researchers and practitioners. The first part shows pGAs to either beginners and mature researchers looking for a unified view of the two fields: GAs and parallelism. The second part partially solves (and also opens) new investigation lines in theory of pGAs. The third part can be accessed independently for readers interested in applications. The result is an excellent source of information on the state of the art and future developments in parallel GAs.

Machine Learning and Its Application: A Quick Guide

for Beginners - Indranath Chatterjee 2021-12-22
Machine Learning and Its Application: A Quick Guide for Beginners aims to cover most of the core topics required for study in machine learning curricula included in university and college courses. The textbook introduces readers to central concepts in machine learning and artificial intelligence, which include the types of machine learning algorithms and the statistical knowledge required for devising relevant computer algorithms. The book also covers advanced topics such as deep learning and feature engineering. Key features: - 8 organized chapters on core concepts of machine learning for learners - Accessible text for beginners unfamiliar with complex mathematical concepts - Introductory topics are included, including supervised learning, unsupervised learning, reinforcement learning and predictive statistics - Advanced topics such as deep learning and feature engineering

provide additional information - Introduces readers to python programming with examples of code for understanding and practice - Includes a summary of the text and a dedicated section for references Machine Learning and Its Application: A Quick Guide for Beginners is an essential book for students and learners who want to understand the basics of machine learning and equip themselves with the knowledge to write algorithms for intelligent data processing applications.

Machine Learning for Beginners - Chris Sebastian 2019

◆◆ Bonus: Buy the Paperback version of this book, and get the kindle eBook version included for FREE** Machine Learning is changing the world. You use Machine Learning every day and probably don't know it. In this book, you will learn how ML grew from a desire to make computers able to learn. Trace the development of Machine Learning from the early days of a computer learning how to

play checkers, to machines able to beat world masters in chess and go. Understand how large data is so important to Machine Learning, and how the collection of massive amounts of data provides Machine Learning programmers with the information they need to developing learning algorithms. Simple examples will help you understand the complex math and probability statistics underlining Machine Learning. You will also see real-world examples of Machine Learning in action and uncover how these algorithms are making your life better every day. Learn about how artificial intelligence, Machine Learning, Neural Networks, and Swarm Intelligence interact and complement each other as part of the quest to generate machines capable of thinking and reacting to the world. Read about the technical issues with Machine Learning and how they are being overcome. Discover the dark side of ML and what possible outcomes there could be should things go

wrong. And finally, learn about the positive future artificial intelligence and Machine Learning promise to bring to the world. In this book, you will discover *The history of Machine Learning *Approaches taken to ML in the past and present *Artificial intelligence and its relationship to ML *How neural networks, big data, regression, and the cloud all play a part in the development of Machine Learning *Compare Machine Learning to the Internet of Things, Robotics, and Swarm Intelligence *Learn about the different models of ML and how each is used to produce learning algorithms *Get access to free software and data sets so you can try out your very own Machine Learning software *Examine some of the technical problems and philosophical dilemmas with ML *See what advanced Machine Learning will make to our world in the future So what are you waiting for???

Machine Learning for

Beginners - Jason Knox
2019-12-07

Thinking about beginning a career in the field of Data Science? Do you want to understand more in depth everything that concerns Machine Learning? Or maybe you're a total newbie eager to start learning this topic from zero or so. Machine Learning is one of the most exciting developments to come out of computer science since its founding. It's dramatically changing society all around us and the new occupation of Data Science which has arisen as a result of the development of Machine Learning has opened up a new career path that guarantees employment that is exciting, at the cutting edge, and guaranteed to be challenging. Maybe you're aware of all the hype but you are quite sure what Machine Learning is. If that's the case you've come to the right place. This book is designed to be a beginner's introduction to the exciting world of Machine Learning and Data Science. In this book we are going to pull

the curtain back and reveal the secrets and tools used in these exciting fields. We'll begin by recounting a history of machines and how they are an extension of the human mind and also an extension of human labor. Then we will introduce you to the concept of Machine Learning and explore how it relates to Artificial Intelligence into Deep Learning. You will learn all the different ways that Machine Learning can be applied in the real world in practical circumstances. After this, we will reveal the different types of learning and training that is used in order to get computers to learn how to deal with the real world and become autonomous agents. We will teach you all about Supervised and Unsupervised Learning. You're also going to learn the concepts behind all the major algorithms that are used in Data Science and Machine Learning. Inside you'll discover: What Linear Regression is, and the concept of least squares; Types of learning used to train machines to think and act autonomously;

Avoid getting lost in Decision Trees and Random Forests; Understand Logistic Regression; Learn how tools like Clustering are used; Find out some of the recent applications of Machine Learning to the real world; See how Machine Learning is being used in Social Media, Analysis, by Government and by companies like Amazon, Netflix and Google; And much more... So, don't waste anymore time and let's start your journey !!
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Python Data Science -

Andrew Park 2021-04-27

□ 55% OFF for Bookstores!

NOW at \$ 12.59 instead of \$ 27.97! LAST DAYS! □ Do you

want to learn More about Data Science or how to master it with Python?Your Customers Will Love This Amazing Guide!If you want to learn more about Data Science or how to master it with the Python Programming Language, then keep reading. Data Science is one of the biggest buzzwords in the business world nowadays.

Many businesses know the importance of collecting information, but as they can collect so much data in a short period, the real question is: "what is the next step?" Data Science includes all the different steps that you take with the data: collecting and cleaning them if they come from more than one source, analyzing them, applying Machine Learning algorithms and models, and then presenting your findings from the analysis with some good Data Visualizations. And this is what you will learn in Python Data Science. You will learn about the main steps that are needed to correctly implement Data Science techniques and the algorithms to help you sort through the data and see some amazing results. Some of the topics that we will discuss inside include: What data science is all about and why so many companies are using it to give them a competitive edge. Why Python and how to use it to implement Data Science What is the intersection between Machine Learning and

Data Science and how to combine them The main Data Structures & Object-Oriented Python, with practical codes and exercises to use Python Functions and Modules in Python The 7 most important algorithms and models in Data Science Data Aggregation and Group Operations 9 important Data Mining techniques in Data Science Interaction with databases and data in the cloud And Much More! Where most books only focus on how collecting and cleaning the data, this book goes further, providing guidance on how to perform a proper analysis in order to extract precious information that may be vital for a business. Don't miss the opportunity to learn more about these topics. Even if you have never implemented Data Science techniques, learning them is easier than it looks. You just need the right guidance. And Python Data Science provides all the knowledge you need in a simple and practical way. Regardless of your previous experience, you will learn, the

techniques to manipulate and process datasets, the principles of Python programming, and its most important real-world applications. Would You Like To Know More? Buy It NOW And Let Your Customers Get Addicted To This Amazing Book!

Java Ans C Computer Programming for Beginners

- Will Norton 2020-12-19

Are you looking for the PERFECT introduction into the world of coding? Are you in learning programming easily? Are you interested in creating real world programming projects with C or Java? This comprehensive beginner's guide will take you step by step through learning the best programming languages. In a matter of no time, you will be writing code like a professional. Despite there being many advanced and new languages, Java is highly popular and has dominated this field from the early 2000s till the present. Used in everything from microcontrollers to operating systems, C is a popular programming language

among developers because of its flexibility and versatility. This book helps you get hands-on with various tasks, covering the fundamental as well as complex C programming concepts that are essential for making real-life applications. Download the e-Book: JAVA AND C COMPUTER PROGRAMMING FOR BEGINNERS - A practical beginners guide to learn java and C programming, fundamentals and code to obtain a comprehensive knowledge of what Java and C programming is and how to get the optimum benefit from it. The goal of this book is simple: We want to help beginners who are willing to do hard work to learn programming with this book. This book will serve as a guide for beginners and a reference for experienced programmers. What java will also learn: Basics of Java What is Java Virtual Machine? Basic structure of a Java Program Code structure of Java Data Types and Variables Java Data Structure and Algorithms Arrays in Java Strings in Java

What you will also learn ● Different versions available in C ● What is a programming process? ● How to create your first C program? ● What is functional programming? ● What are different available operations in C? ● What are variables, constants, manipulations and functions? ● A brief section about Arrays and Structures ● Description about different errors We believe the best way to learn programming is through practice and practical application. For this reason, this book is crammed full of examples and code descriptions. Would you like to know more? Scroll to the top of the page and select the buy now button.

Introduction To Algorithms -

Thomas H Cormen 2001
The first edition won the award for Best 1990 Professional and Scholarly Book in Computer Science and Data Processing by the Association of American Publishers. There are books on algorithms that are rigorous but incomplete and others that cover masses of material but

lack rigor. Introduction to Algorithms combines rigor and comprehensiveness. The book covers a broad range of algorithms in depth, yet makes their design and analysis accessible to all levels of readers. Each chapter is relatively self-contained and can be used as a unit of study. The algorithms are described in English and in a pseudocode designed to be readable by anyone who has done a little programming. The explanations have been kept elementary without sacrificing depth of coverage or mathematical rigor. The first edition became the standard reference for professionals and a widely used text in universities worldwide. The second edition features new chapters on the role of algorithms, probabilistic analysis and randomized algorithms, and linear programming, as well as extensive revisions to virtually every section of the book. In a subtle but important change, loop invariants are introduced early and used throughout the

text to prove algorithm correctness. Without changing the mathematical and analytic focus, the authors have moved much of the mathematical foundations material from Part I to an appendix and have included additional motivational material at the beginning.

Machine Learning for Beginners - Ethem Mining
2019-12-03

Are you fascinated about machine learning and AI and you don't know where to start? Have you ever heard people talking about Machine Learning but you only have a vague idea of the actual meaning? Do you want to understand how machine learning could simplify your daily life? Imagine a world where computing systems understand people and the world around us them to a point where they can notice patterns, collect data, interpret it and give recommendations to solve real world problems with high level of precision. It sounds like science fiction but it is happening in healthcare,

agriculture, cyber security, facial recognition, targeting and retargeting customers in online advertising, recommending specific products, stories, videos, text etc., self-driving cars, real time pricing, predicting human behavior and much more. Now imagine you being one of the people behind the code; the people who get these advanced systems to work the way they do. Would it be a dream come true for you? By virtue that you are reading this, it is clear that you have some special liking for this advanced tech and would want to learn how you can be one of the people behind the code. Even if not, you probably want to be able to understand the inner workings of these systems. The concept may sound extremely out there and advanced but it won't be if you follow this guide, which takes an easy to follow, beginner friendly language to help you to understand the ins and outs of machine learning! Here is a summary of what this book will teach you: The basics of machine learning, including

what it is, how machine learning has evolved over the years, the application of machine learning in today's world and the future of machine learning How machine learning is beneficial in today's world The different approaches to machine learning, including unsupervised, supervised, reinforcement learning method, semi-supervised machine learning and many others The concept of big data analysis, including what is big data, why big data is important, the application of big data in today's world as well as the different data analysis tools that you can use The link between big data and machine learning The different machine learning algorithms, including what machine-learning algorithms are and how and when the different learning algorithms are used The concept of artificial neural networks, including how they work, when to use neural networks and more How decision trees are used in machine learning, including what decision trees are (in

respect to machine learning), how they work, how the decision tree is read, the different nodes in decision trees and when to use them The ins and outs of linear and logistic regression in machine learning, including what linear regression is, different types of regression, how linear regression works, how linear regression is used and much more And much more! Even if this is your first encounter with the concept of machine learning, this book will uncover everything you need to know to master machine learning and possibly get started in this field of advanced computing knowing very well what you are venturing into. And the good thing is that the book takes a beginner friendly approach to help you to apply what you learn right away! Would You Like To Know More? Click Buy Now With 1-Click or Buy Now to get started!

Java Programming - Codewell Academy 2015-09-07
Code Java like a TRUE EXPERT! " Great book for learning Java. This book backs

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up concepts introduced with clear and logical examples." - Allen B, from Amazon.com "The beauty of this book is that you can study these foundations at your own pace, always at just the right speed." - Denis Chen, from Amazon.com " I would recommend it to all aspiring Java programmers! " - Jason Smith, from Amazon.com Would you like to be a GREAT Java programmer? Would you enjoy a high-paying & in-demand career in Java programming? Crafted by some of the best minds who have studied in some of the world's top universities, You're among one of the best learning programs out there. But are you paying THOUSANDS of dollars just to learn how to code well? NO! Hundreds? Not even close. For less than the price of a good cup of coffee, Download your copy today! Within this book's pages, you'll find GREAT coding skills to learn - and more. Just some of the questions and topics include: - Making Java's Complexity more SIMPLE and EASY-to-understand- Reduce your

Coding Errors in Java with in-depth guides to Java Syntax - HUGE mistakes in Java that you CANNOT afford to make... - How to create Data to Model REAL-LIFE Situations (Few books will teach this...) - The Unique Code Structure in Java Explained and Much, much more! World-Class Training This book breaks your training down into easy-to-understand modules. It starts from the very essentials of data structures and functions, so you can write great code - even as a beginner! Scroll to the top and select the "BUY" button for instant download. BONUS: Download today and get ALL future updates to this book edition for FREE You'll be happy you did!

Machine Learning - Andrew Park 2020-11-14
Master The World Of Machine Learning And Data Science With This Comprehensive 2-in-1 bundle If you want to learn more about Machine Learning and Data Science or how to master them with Python quickly and easily, then keep reading. Data Science and

Machine Learning are one of the biggest buzzwords in the business world nowadays. Many businesses know the importance of collecting information, but as they can collect so much data in a short period, the real question is: "what is the next step?" Data Science includes all the different steps that you take with the data: collecting and cleaning them, analyzing them, applying Machine Learning algorithms and models, and then presenting your findings from the analysis with some good Data Visualizations. Machines and automation represent a huge part of our daily life. They are becoming part of our experience, and existence. Artificial Intelligence is currently one of the most thriving fields any programmer would wish to delve into, and for a good reason: this is the future! Simply put, Machine Learning is about teaching machines to think and make decisions as we would. The difference between the way machines learn and the way we do is that while for the most

part we learn from experiences, machines learn from data. In book one, PYTHON MACHINE LEARNING, you will learn: What is Machine Learning and how it is applied in real-world situations Understanding the differences between Machine Learning, Deep Learning, and Artificial Intelligence Machine learning training models, Regression techniques and Linear Regression in Python How to use Lists and Modules in Python The 12 essential libraries for Machine Learning in Python Artificial Neural Networks And Much More! In book two, PYTHON DATA SCIENCE, you will learn: What Data Science is all about and why so many companies are using it to give them a competitive edge. Why Python and how to use it to implement Data Science The main Data Structures & Object-Oriented Programming, Functions and Modules in Python with practical codes and exercises The 7 most important algorithms and models in Data Science Data Aggregation,

Group Operations, Databases and Data in the Cloud 9 important Data Mining techniques in Data Science And So Much More! Where most books only focus on how collecting and cleaning the data, this book goes further, providing guidance on how to perform a proper analysis in order to extract precious information that may be vital for a business. Don't miss the opportunity to master the key points of Machine Learning technology and understand how researchers are breaking the boundaries of Data Science to mimic human intelligence in machines. Even if some Machine Learning concepts and algorithms can appear complex to most computer programming beginners, this book takes the time to explain them in a simple and concise way. Understanding Machine Learning and Data Science is easier than it looks. You just need the right guidance. And this bundle provides all the knowledge you need in a simple and practical way. Regardless of your previous

experience, you will learn the techniques to manipulate and process datasets, the principles of Python programming, and its most important real-world applications. Would You Like To Know More? Scroll Up and Click the BUY NOW Button to Get Your Copy!

A Common-Sense Guide to Data Structures and Algorithms, Second Edition -

Jay Wengrow 2020-08-10 Algorithms and data structures are much more than abstract concepts. Mastering them enables you to write code that runs faster and more efficiently, which is particularly important for today's web and mobile apps. Take a practical approach to data structures and algorithms, with techniques and real-world scenarios that you can use in your daily production code, with examples in JavaScript, Python, and Ruby. This new and revised second edition features new chapters on recursion, dynamic programming, and using Big O in your daily work. Use Big O notation 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 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 applications such as social networks and mapping software. You'll even encounter a single keyword that can give your code a turbo boost. Practice your new skills with exercises in every chapter, along with detailed solutions. Use these techniques today to make your code faster and more scalable.

The Algorithm Design Manual - Steven S Skiena
2009-04-05

This newly expanded and updated second edition of the best-selling classic continues to take the "mystery" out of designing algorithms, and analyzing their efficacy and

efficiency. Expanding on the first edition, the book now serves as the primary textbook of choice for algorithm design courses while maintaining its status as the premier practical reference guide to algorithms for programmers, researchers, and students. The reader-friendly *Algorithm Design Manual* provides straightforward access to combinatorial algorithms technology, stressing design over analysis. The first part, *Techniques*, provides accessible instruction on methods for designing and analyzing computer algorithms. The second part, *Resources*, is intended for browsing and reference, and comprises the catalog of algorithmic resources, implementations and an extensive bibliography.

NEW to the second edition:

- Doubles the tutorial material and exercises over the first edition
- Provides full online support for lecturers, and a completely updated and improved website component with lecture slides, audio and video
- Contains a unique

catalog identifying the 75 algorithmic problems that arise most often in practice, leading the reader down the right path to solve them • Includes several NEW "war stories" relating experiences from real-world applications • Provides up-to-date links leading to the very best algorithm implementations available in C, C++, and Java

Algorithms For Dummies -

John Paul Mueller 2017-04-11

Discover how algorithms shape and impact our digital world All data, big or small, starts with algorithms. Algorithms are mathematical equations that determine what we see—based on our likes, dislikes, queries, views, interests, relationships, and more—online. They are, in a sense, the electronic gatekeepers to our digital, as well as our physical, world. This book demystifies the subject of algorithms so you can understand how important they are business and scientific decision 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 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 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 interactions and consumerism. Readers even learn how to program an algorithm using Python! Become well-versed in the major areas comprising algorithms Examine the incredible history behind algorithms Get familiar with real-world applications of problem-solving procedures Experience hands-on development of an algorithm from start to finish with Python If you have a nagging curiosity about why an ad for that hammock you checked out on Amazon is appearing on your Facebook page, you'll find Algorithm for Dummies to be an enlightening introduction to

this integral realm of math, science, and business.

A Common-Sense Guide to Data Structures and Algorithms

- Jay Wengrow
2017-08-03

" Algorithms and data structures are much more than abstract concepts. Mastering them enables you to write code that runs faster and more efficiently, which is particularly important for 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 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 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 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 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 as a web development bootcamp founder and educator. Use these techniques today to make your code faster and more scalable. "

A Beginner's Guide to Internet of Things Security - B. B. Gupta
2020-01-23

A Beginner's Guide to Internet of Things Security focuses on security issues and developments in the Internet of Things (IoT) environment. The wide-ranging applications of IoT, including home appliances, transportation, logistics, healthcare, and smart

cities, necessitate security applications that can be applied to every domain with minimal cost. IoT contains three layers: application layer, middleware layer, and perception layer. The security problems of each layer are analyzed separately to identify solutions, along with the integration and scalability issues with the cross-layer architecture of IoT. The book discusses the state-of-the-art authentication-based security schemes, which can secure radio frequency identification (RFID) tags, along with some security models that are used to verify whether an authentication scheme is secure against any potential security risks. It also looks at existing authentication schemes and security models with their strengths and weaknesses. The book uses statistical and analytical data and explains its impact on the IoT field, as well as an extensive literature survey focusing on trust and privacy problems. The open challenges and future research direction

discussed in this book will help to further academic researchers and industry professionals in the domain of security. Dr. Brij B. Gupta is an assistant professor in the Department of Computer Engineering, National Institute of Technology, Kurukshetra, India. Ms. Aakanksha Tewari is a PhD Scholar in the Department of Computer Engineering, National Institute of Technology, Kurukshetra, India.

[Python for Data Science](#) -

Ethan Williams 2019-08-18

This book is a comprehensive guide for beginners to learn Python Programming, especially its application for Data Science. While the lessons in this book are targeted at the absolute beginner to programming, people at various levels of proficiency in Python, or any other programming languages can also learn some basics and concepts of data science. A few Python libraries are introduced, including NumPy, Pandas, Matplotlib, and Seaborn for data analysis and

visualisation. To make the lessons more intuitive and relatable, practical examples and applications of each lesson are given. The reader is equally encouraged to practise the techniques via exercises, within and at the end of the relevant chapters. To help the reader get a full learning experience, there are references to relevant reading and practice materials, and the reader is encouraged to click these links and explore the possibilities they offer. It is expected that with consistency in learning and practicing the reader can master Python and the basics of its application in data science. The only limitation to the reader's progress, however, is themselves!

Artificial Intelligence with Python - Prateek Joshi
2017-01-27

Build real-world Artificial Intelligence applications with Python to intelligently interact with the world around you
About This Book Step into the amazing world of intelligent apps using this comprehensive

guide Enter the world of Artificial Intelligence, explore it, and create your own applications Work through simple yet insightful examples that will get you up and running with Artificial Intelligence in no time Who This Book Is For This book is for Python developers who want to build real-world Artificial Intelligence applications. This book is friendly to Python beginners, but being familiar with Python would be useful to play around with the code. It will also be useful for experienced Python programmers who are looking to use Artificial Intelligence techniques in their existing technology stacks. What You Will Learn Realize different classification and regression techniques Understand the concept of clustering and how to use it to automatically segment data See how to build an intelligent recommender system Understand logic programming and how to use it Build automatic speech recognition systems Understand the basics of

heuristic search and genetic programming Develop games using Artificial Intelligence Learn how reinforcement learning works Discover how to build intelligent applications centered on images, text, and time series data See how to use deep learning algorithms and build applications based on it In Detail Artificial Intelligence is becoming increasingly relevant in the modern world where everything is driven by technology and data. It is used extensively across many fields such as search engines, image recognition, robotics, finance, and so on. We will explore various real-world scenarios in this book and you'll learn about various algorithms that can be used to build Artificial Intelligence applications. During the course of this book, you will find out how to make informed decisions about what algorithms to use in a given context. Starting from the basics of Artificial Intelligence, you will learn how to develop various building blocks using different data mining techniques. You will see how to

implement different algorithms to get the best possible results, and will understand how to apply them to real-world scenarios. If you want to add an intelligence layer to any application that's based on images, text, stock market, or some other form of data, this exciting book on Artificial Intelligence will definitely be your guide! Style and approach This highly practical book will show you how to implement Artificial Intelligence. The book provides multiple examples enabling you to create smart applications to meet the needs of your organization. In every chapter, we explain an algorithm, implement it, and then build a smart application. *An Introduction to Genetic Algorithms* - Melanie Mitchell 1998-03-02 Genetic algorithms have been used in science and engineering as adaptive algorithms for solving practical problems and as computational models of natural evolutionary systems. This brief, accessible introduction describes some of the most interesting research

in the field and also enables readers to implement and experiment with genetic algorithms on their own. It focuses in depth on a small set of important and interesting topics—particularly in machine learning, scientific modeling, and artificial life—and reviews a broad span of research, including the work of Mitchell and her colleagues. The descriptions of applications and modeling projects stretch beyond the strict boundaries of computer science to include dynamical systems theory, game theory, molecular biology, ecology, evolutionary biology, and population genetics, underscoring the exciting "general purpose" nature of genetic algorithms as search methods that can be employed across disciplines. An Introduction to Genetic Algorithms is accessible to students and researchers in any scientific discipline. It includes many thought and computer exercises that build on and reinforce the reader's understanding of the text. The first chapter introduces genetic

algorithms and their terminology and describes two provocative applications in detail. The second and third chapters look at the use of genetic algorithms in machine learning (computer programs, data analysis and prediction, neural networks) and in scientific models (interactions among learning, evolution, and culture; sexual selection; ecosystems; evolutionary activity). Several approaches to the theory of genetic algorithms are discussed in depth in the fourth chapter. The fifth chapter takes up implementation, and the last chapter poses some currently unanswered questions and surveys prospects for the future of evolutionary computation.

Beginner's Guide to Code Algorithms - Deepankar Maitra 2022

"This book takes you on a problem-solving journey to expand your mind and increase your willingness to experiment with code"--

Real-World Machine Learning - Henrik Brink 2016-09-15

Summary Real-World Machine Learning is a practical guide designed to teach working developers the art of ML project execution. Without overdosing you on academic theory and complex mathematics, it introduces the day-to-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, Kindle, and ePub formats from Manning Publications. About the Technology Machine learning systems help you find valuable insights and patterns in data, which you'd never recognize with traditional methods. In the real world, ML techniques give you a way to identify trends, forecast behavior, and 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 Learning will teach you the concepts and techniques you need to be a successful machine learning practitioner without overdosing

you on abstract theory and complex mathematics. By working through immediately relevant examples in Python, you'll build skills in data acquisition and modeling, classification, and regression. You'll also explore the most important tasks like model validation, optimization, scalability, and real-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 future behavior Performance evaluation and optimization Analyzing sentiment and making recommendations About the Reader No prior machine learning experience assumed. Readers should know Python. About the Authors Henrik Brink, Joseph Richards and Mark Fetherolf are experienced data scientists engaged in the daily practice of machine learning. Table of Contents PART 1: THE MACHINE-LEARNING WORKFLOW What is machine learning? Real-world data

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sentiment Scaling machine-
learning workflows Example:
digital display advertising
Algorithms - Panos Louridas
2020-08-18
In the tradition of Real World
Algorithms: A Beginner's
Guide, Panos Louridas is back
to introduce algorithms in an
accessible manner, utilizing
various examples to explain not
just what algorithms are but
how they work. Digital

technology runs on algorithms,
sets of instructions that
describe how to do something
efficiently. Application areas
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 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. Louridas
explains not just what
algorithms are but also how
they work, offering a wide
range of examples and keeping
mathematics to a minimum.