

Java Artificial Intelligence Made Easy W Java Programming Learn To Create Your Problem Solving Algorithms Today W Machine Learning Data Structures Artificial Intelligence Series

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Vert.x in Action - Julien Ponge 2020-12-01

Vert.x in Action teaches you how to build production-quality reactive applications in Java. This book covers core Vert.x concepts, as well as the fundamentals of asynchronous and reactive programming. Learn to develop microservices by using Vert.x tools for database communications, persistent messaging, and test app resiliency. The patterns and techniques included here transfer to reactive technologies and frameworks beyond Vert.x. Summary As enterprise applications become larger and more distributed, new architectural approaches like reactive designs, microservices, and event streams are required knowledge. The Vert.x framework provides a mature, rock-solid toolkit for building reactive applications using Java, Kotlin, or Scala. Vert.x in Action teaches you to build responsive, resilient, and scalable JVM applications with Vert.x using well-established reactive design patterns. Purchase of the print book includes a free eBook in PDF, Kindle, and

ePub formats from Manning Publications. About the technology Vert.x is a collection of libraries for the Java virtual machine that simplify event-based and asynchronous programming. Vert.x applications handle tedious tasks like asynchronous communication, concurrent work, message and data persistence, plus they're easy to scale, modify, and maintain. Backed by the Eclipse Foundation and used by Red Hat and others, this toolkit supports code in a variety of languages. About the book Vert.x in Action teaches you how to build production-quality reactive applications in Java. This book covers core Vert.x concepts, as well as the fundamentals of asynchronous and reactive programming. Learn to develop microservices by using Vert.x tools for database communications, persistent messaging, and test app resiliency. The patterns and techniques included here transfer to reactive technologies and frameworks beyond Vert.x. What's inside Building reactive services Responding to external service failures Horizontal scaling Vert.x toolkit

architecture and Vert.x testing Deploying with Docker and Kubernetes About the reader For intermediate Java web developers. About the author Julien Ponge is a principal software engineer at Red Hat, working on the Eclipse Vert.x project. Table of Contents PART 1 - FUNDAMENTALS OF ASYNCHRONOUS PROGRAMMING WITH VERT.X 1 Vert.x, asynchronous programming, and reactive systems 2 Verticles: The basic processing units of Vert.x 3 Event bus: The backbone of a Vert.x application 4 Asynchronous data and event streams 5 Beyond callbacks 6 Beyond the event bus PART 2 - DEVELOPING REACTIVE SERVICES WITH VERT.X 7 Designing a reactive application 8 The web stack 9 Messaging and event streaming with Vert.x 10 Persistent state management with databases 11 End-to-end real-time reactive event processing 12 Toward responsiveness with load and chaos testing 13 Final notes: Container-native Vert.x

Machine Learning in Java - Bostjan Kaluza 2016-04-29

Design, build, and deploy your own machine learning applications by leveraging key Java machine learning libraries About This Book- Develop a sound strategy to solve predictive modelling problems using the most popular machine learning Java libraries- Explore a broad variety of data processing, machine learning, and natural language processing through diagrams, source code, and real-world applications- Packed with practical advice and tips to help you get to grips with applied machine learning Who This Book Is For If you want to learn how to use Java's machine learning libraries to gain insight from your data, this book is for you. It will get you up and running quickly and provide you with the skills you need to successfully create, customize, and deploy machine learning applications in real life. You should be familiar with Java programming and data mining concepts to make the most of this book, but no prior experience with data mining packages is necessary. What You Will Learn- Understand the basic steps of applied machine learning and how to differentiate among various machine learning approaches- Discover key Java machine learning libraries, what each library brings to the table, and what kind of problems each are able to solve- Learn how to implement classification, regression, and clustering- Develop a

sustainable strategy for customer retention by predicting likely churn candidates- Build a scalable recommendation engine with Apache Mahout- Apply machine learning to fraud, anomaly, and outlier detection- Experiment with deep learning concepts, algorithms, and the toolbox for deep learning- Write your own activity recognition model for eHealth applications using mobile sensors In Detail As the amount of data continues to grow at an almost incomprehensible rate, being able to understand and process data is becoming a key differentiator for competitive organizations. Machine learning applications are everywhere, from self-driving cars, spam detection, document search, and trading strategies, to speech recognition. This makes machine learning well-suited to the present-day era of Big Data and Data Science. The main challenge is how to transform data into actionable knowledge. Machine Learning in Java will provide you with the techniques and tools you need to quickly gain insight from complex data. You will start by learning how to apply machine learning methods to a variety of common tasks including classification, prediction, forecasting, market basket analysis, and clustering. Moving on, you will discover how to detect anomalies and fraud, and ways to perform activity recognition, image recognition, and text analysis. By the end of the book, you will explore related web resources and technologies that will help you take your learning to the next level. By applying the most effective machine learning methods to real-world problems, you will gain hands-on experience that will transform the way you think about data. Style and approach This is a practical tutorial that uses hands-on examples to step through some real-world applications of machine learning. Without shying away from the technical details, you will explore machine learning with Java libraries using clear and practical examples. You will explore how to prepare data for analysis, choose a machine learning method, and measure the success of the process.

Java : - Harry. H. Chaudhary. 2014-08-15

Essential Java Skills--Made Easy! What Special - In this book I covered and explained several topics of latest Java 8 Features in detail for Developers & Fresher's, Topics Like- Lambdas. || Java 8 Functional

interface, || Stream and Time API in Java 8. This Java book doesn't require previous programming experience. However, if you come from a C or C++ programming background, then you will be able to learn faster. Learn the all basics and advanced features of Java programming in no time from Bestseller Java Programming Author Harry. H. Chaudhary (More than 1,67,000 Books Sold !). This Java Guide, starts with the basics and Leads to Advance features of Java in detail with thousands of Java Codes and new features of Java 8 like Lambdas. Java 8 Functional interface, || Stream and Time API in Java 8. , I promise this book will make you expert level champion of java. Anyone can learn java through this book at expert level. The main objective of this java book is not to give you just Java Programming Knowledge, I have followed a pattern of improving the question solution of thousands of Codes with clear theory explanations with different Java complexities for each java topic problem, and you will find multiple solutions for complex java problems. Engineering Students and fresh developers can also use this book. This book covers common core syllabus for all Computer Science Professional Degrees If you are really serious then go ahead and make your day with this ultimate java book. First Part- Teach you how to compile and run a Java program, shows you everything you need to develop, compile, debug, and run Java programs. And then discusses the keywords, syntax, and constructs that form the core of the Java language. After that it leads you to advanced features of java, including multithreaded programming and Applets. Learning a new language is no easy task especially when it's an oop's programming language like Java. You might think the problem is your brain. It seems to have a mind of its own, a mind that doesn't always want to take in the dry, technical stuff you're forced to study. The fact is your brain craves novelty. This Java Book is very serious java stuff: A complete introduction to Java. You'll learn everything from the fundamentals to advanced topics, if you've read this book, you know what to expect--a visually rich format designed for the way your brain works. To use this book does not require any previous programming experience. However, if you come from a C/C++ background, then you will be able to advance a bit more rapidly. As most

readers will know, Java is similar, in form and spirit, to C/C++. Thus, knowledge of those languages helps, but is not necessary. Even if you have never programmed before, you can learn to program in Java using this book. Inside Contents (Chapters): 1. (Overview of Java) 2.(Java Language) 3.(Control Statements) 4.(Scanner class, Arrays & Command Line Args) 5.(Class & Objects in Java) 6.(Inheritance in Java) 7.(Object oriented programming) 8.(Packages in Java) 9.(Interface in Java) 10.(String and StringBuffer) 11.(Exception Handling) 12.(Multi-Threaded Programming) 13.(Modifiers/Visibility modes) 14.(Wrapper Class) 15.(Input/Output in Java) 16.(Applet Fundamentals) 17.(Abstract Windows Toolkit)(AWT) 18.(Introduction To AWT Events) 19.(Painting in AWT) 20.(java.lang.Object Class) 21.(Collection Framework) PART - II (Java 8 Features for Developers) 22. Java 8 Features for Developers - Lambdas. 23. Java 8 Functional interface,Stream & Time API. 24. Key Features that Make Java More Secure than Other Languages.

Natural Language Processing with Java - Richard M. Reese
2018-07-31

Explore various approaches to organize and extract useful text from unstructured data using Java Key Features Use deep learning and NLP techniques in Java to discover hidden insights in text Work with popular Java libraries such as CoreNLP, OpenNLP, and Mallet Explore machine translation, identifying parts of speech, and topic modeling Book Description Natural Language Processing (NLP) allows you to take any sentence and identify patterns, special names, company names, and more. The second edition of Natural Language Processing with Java teaches you how to perform language analysis with the help of Java libraries, while constantly gaining insights from the outcomes. You'll start by understanding how NLP and its various concepts work. Having got to grips with the basics, you'll explore important tools and libraries in Java for NLP, such as CoreNLP, OpenNLP, Neuroph, and Mallet. You'll then start performing NLP on different inputs and tasks, such as tokenization, model training, parts-of-speech and parsing trees. You'll learn about statistical machine translation, summarization, dialog systems, complex searches, supervised and unsupervised NLP, and more.

By the end of this book, you'll have learned more about NLP, neural networks, and various other trained models in Java for enhancing the performance of NLP applications. What you will learn Understand basic NLP tasks and how they relate to one another Discover and use the available tokenization engines Apply search techniques to find people, as well as things, within a document Construct solutions to identify parts of speech within sentences Use parsers to extract relationships between elements of a document Identify topics in a set of documents Explore topic modeling from a document Who this book is for Natural Language Processing with Java is for you if you are a data analyst, data scientist, or machine learning engineer who wants to extract information from a language using Java. Knowledge of Java programming is needed, while a basic understanding of statistics will be useful but not mandatory.

Core Java Professional : - Harry. H. Chaudhary. 2014-08-15

Essential Java Skills--Made Easy! What Special - In this book I covered and explained several topics of latest Java 8 Features in detail for Developers & Fresher's, Topics Like- Lambdas. || Java 8 Functional interface, || Stream and Time API in Java 8. This Java book doesn't require previous programming experience. However, if you come from a C or C++ programming background, then you will be able to learn faster. Learn the all basics and advanced features of Java programming in no time from Bestseller Java Programming Author Harry. H. Chaudhary (More than 1,67,000 Books Sold !). This Java Guide, starts with the basics and Leads to Advance features of Java in detail with thousands of Java Codes and new features of Java 8 like Lambdas. Java 8 Functional interface, || Stream and Time API in Java 8. , I promise this book will make you expert level champion of java. Anyone can learn java through this book at expert level. The main objective of this java book is not to give you just Java Programming Knowledge, I have followed a pattern of improving the question solution of thousands of Codes with clear theory explanations with different Java complexities for each java topic problem, and you will find multiple solutions for complex java problems. Engineering Students and fresh developers can also use this book. This book covers common core syllabus for all Computer Science

Professional Degrees If you are really serious then go ahead and make your day with this ultimate java book. First Part- Teach you how to compile and run a Java program, shows you everything you need to develop, compile, debug, and run Java programs. And then discusses the keywords, syntax, and constructs that form the core of the Java language. After that it leads you to advanced features of java, including multithreaded programming and Applets. Learning a new language is no easy task especially when it's an oop's programming language like Java. You might think the problem is your brain. It seems to have a mind of its own, a mind that doesn't always want to take in the dry, technical stuff you're forced to study. The fact is your brain craves novelty. This Java Book is very serious java stuff: A complete introduction to Java. You'll learn everything from the fundamentals to advanced topics, if you've read this book, you know what to expect--a visually rich format designed for the way your brain works. To use this book does not require any previous programming experience. However, if you come from a C/C++ background, then you will be able to advance a bit more rapidly. As most readers will know, Java is similar, in form and spirit, to C/C++. Thus, knowledge of those languages helps, but is not necessary. Even if you have never programmed before, you can learn to program in Java using this book. Inside Contents (Chapters): 1. (Overview of Java) 2.(Java Language) 3.(Control Statements) 4.(Scanner class, Arrays & Command Line Args) 5.(Class & Objects in Java) 6.(Inheritance in Java) 7.(Object oriented programming) 8.(Packages in Java) 9.(Interface in Java) 10.(String and StringBuffer) 11.(Exception Handling) 12.(Multi-Threaded Programming) 13.(Modifiers/Visibility modes) 14.(Wrapper Class) 15.(Input/Output in Java) 16.(Applet Fundamentals) 17.(Abstract Windows Toolkit)(AWT) 18.(Introduction To AWT Events) 19.(Painting in AWT) 20.(java.lang.Object Class) 21.(Collection Framework) PART - II (Java 8 Features for Developers) 22. Java 8 Features for Developers - Lambdas. 23. Java 8 Functional interface,Stream & Time API. 24. Key Features that Make Java More Secure than Other Languages.

Data Mining - Ian H. Witten 2000

This book offers a thorough grounding in machine learning concepts

combined with practical advice on applying machine learning tools and techniques in real-world data mining situations. Clearly written and effectively illustrated, this book is ideal for anyone involved at any level in the work of extracting usable knowledge from large collections of data. Complementing the book's instruction is fully functional machine learning software.

Java Deep Learning Projects - Md. Rezaul Karim 2018-06-29

Build and deploy powerful neural network models using the latest Java deep learning libraries Key Features Understand DL with Java by implementing real-world projects Master implementations of various ANN models and build your own DL systems Develop applications using NLP, image classification, RL, and GPU processing Book Description Java is one of the most widely used programming languages. With the rise of deep learning, it has become a popular choice of tool among data scientists and machine learning experts. Java Deep Learning Projects starts with an overview of deep learning concepts and then delves into advanced projects. You will see how to build several projects using different deep neural network architectures such as multilayer perceptrons, Deep Belief Networks, CNN, LSTM, and Factorization Machines. You will get acquainted with popular deep and machine learning libraries for Java such as Deeplearning4j, Spark ML, and RankSys and you'll be able to use their features to build and deploy projects on distributed computing environments. You will then explore advanced domains such as transfer learning and deep reinforcement learning using the Java ecosystem, covering various real-world domains such as healthcare, NLP, image classification, and multimedia analytics with an easy-to-follow approach. Expert reviews and tips will follow every project to give you insights and hacks. By the end of this book, you will have stepped up your expertise when it comes to deep learning in Java, taking it beyond theory and be able to build your own advanced deep learning systems. What you will learn Master deep learning and neural network architectures Build real-life applications covering image classification, object detection, online trading, transfer learning, and multimedia analytics using DL4J and open-source APIs Train ML agents

to learn from data using deep reinforcement learning Use factorization machines for advanced movie recommendations Train DL models on distributed GPUs for faster deep learning with Spark and DL4J Ease your learning experience through 69 FAQs Who this book is for If you are a data scientist, machine learning professional, or deep learning practitioner keen to expand your knowledge by delving into the practical aspects of deep learning with Java, then this book is what you need! Get ready to build advanced deep learning models to carry out complex numerical computations. Some basic understanding of machine learning concepts and a working knowledge of Java are required.

Reinforcement Learning From Scratch - Uwe Lorenz 2022-11-18

In ancient games such as chess or go, the most brilliant players can improve by studying the strategies produced by a machine. Robotic systems practice their own movements. In arcade games, agents capable of learning reach superhuman levels within a few hours. How do these spectacular reinforcement learning algorithms work? With easy-to-understand explanations and clear examples in Java and Greenfoot, you can acquire the principles of reinforcement learning and apply them in your own intelligent agents. Greenfoot (M.Kölling, King's College London) and the hamster model (D. Bohles, University of Oldenburg) are simple but also powerful didactic tools that were developed to convey basic programming concepts. The result is an accessible introduction into machine learning that concentrates on reinforcement learning. Taking the reader through the steps of developing intelligent agents, from the very basics to advanced aspects, touching on a variety of machine learning algorithms along the way, one is allowed to play along, experiment, and add their own ideas and experiments.

Hands-On Artificial Intelligence with Java for Beginners - Nisheeth Joshi 2018-08-30

Build, train, and deploy intelligent applications using Java libraries Key Features Leverage the power of Java libraries to build smart applications Build and train deep learning models for implementing artificial intelligence Learn various algorithms to automate complex tasks Book Description Artificial intelligence (AI) is increasingly in demand as well

as relevant in the modern world, where everything is driven by technology and data. AI can be used for automating systems or processes to carry out complex tasks and functions in order to achieve optimal performance and productivity. Hands-On Artificial Intelligence with Java for Beginners begins by introducing you to AI concepts and algorithms. You will learn about various Java-based libraries and frameworks that can be used in implementing AI to build smart applications. In addition to this, the book teaches you how to implement easy to complex AI tasks, such as genetic programming, heuristic searches, reinforcement learning, neural networks, and segmentation, all with a practical approach. By the end of this book, you will not only have a solid grasp of AI concepts, but you'll also be able to build your own smart applications for multiple domains. What you will learn Leverage different Java packages and tools such as Weka, RapidMiner, and Deeplearning4j, among others Build machine learning models using supervised and unsupervised machine learning techniques Implement different deep learning algorithms in Deeplearning4j and build applications based on them Study the basics of heuristic searching and genetic programming Differentiate between syntactic and semantic similarity among texts Perform sentiment analysis for effective decision making with LingPipe Who this book is for Hands-On Artificial Intelligence with Java for Beginners is for Java developers who want to learn the fundamentals of artificial intelligence and extend their programming knowledge to build smarter applications.

Big Data Analytics with Java - Rajat Mehta 2017-07-31

Learn the basics of analytics on big data using Java, machine learning and other big data tools About This Book Acquire real-world set of tools for building enterprise level data science applications Surpasses the barrier of other languages in data science and learn create useful object-oriented codes Extensive use of Java compliant big data tools like apache spark, Hadoop, etc. Who This Book Is For This book is for Java developers who are looking to perform data analysis in production environment. Those who wish to implement data analysis in their Big data applications will find this book helpful. What You Will Learn Start

from simple analytic tasks on big data Get into more complex tasks with predictive analytics on big data using machine learning Learn real time analytic tasks Understand the concepts with examples and case studies Prepare and refine data for analysis Create charts in order to understand the data See various real-world datasets In Detail This book covers case studies such as sentiment analysis on a tweet dataset, recommendations on a movielens dataset, customer segmentation on an ecommerce dataset, and graph analysis on actual flights dataset. This book is an end-to-end guide to implement analytics on big data with Java. Java is the de facto language for major big data environments, including Hadoop. This book will teach you how to perform analytics on big data with production-friendly Java. This book basically divided into two sections. The first part is an introduction that will help the readers get acquainted with big data environments, whereas the second part will contain a hardcore discussion on all the concepts in analytics on big data. It will take you from data analysis and data visualization to the core concepts and advantages of machine learning, real-life usage of regression and classification using Naive Bayes, a deep discussion on the concepts of clustering, and a review of simple neural networks on big data using deepLearning4j or plain Java Spark code. This book is a must-have book for Java developers who want to start learning big data analytics and want to use it in the real world. Style and approach The approach of book is to deliver practical learning modules in manageable content. Each chapter is a self-contained unit of a concept in big data analytics. Book will step by step builds the competency in the area of big data analytics. Examples using real world case studies to give ideas of real applications and how to use the techniques mentioned. The examples and case studies will be shown using both theory and code.

Intelligent Java Applications for the Internet and Intranets - Mark Watson 1997

Internet tools and applications frequently use artificial intelligence (AI) techniques to enable special features and reduced development time. Focusing on intelligent systems, this book provides the introductory AI material that Java programmers need to create Internet and Intranet

applications including online games, search engines, and data-collection tools.

AI Algorithms, Data Structures, and Idioms in Prolog, Lisp, and Java - George F. Luger 2009

Artificial Intelligence - Code Well Academy 2016-04-10

Design the MIND of a Robotic Thinker! " Every chapter is very clearly described and all of the information was presented consistently. " - Amazon Customer " Within this book you'll find GREAT coding skills to learn. Here I've learned so much from reading this book. " - Stella Mill, from Amazon.com " This is the most complete and comprehensive book I read on a subject of Artificial Intelligence so far and it's very well written as well. " - Falli Conna, from Amazon.com ** INCLUDED BONUS: a Quick-start guide to Learning Ruby in less than a Day! ** How would you like to Create the Next AI bot? Artificial Intelligence. One of the most brilliant creations of mankind. No longer a sci-fi fantasy, but a realistic approach to making work more efficient and lives easier. And the best news? It's not that complicated after all Does it require THAT much advanced math? NO! And are you paying THOUSANDS of dollars just to learn this information? 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: - Complicated scheduling problem? Here's how to solve it. - How good are your AI algorithms? Analysis for Efficiency- How to interpret a system into logical code for the AI- How would an AI system would diagnose a system? We show you...- Getting an AI agent to solve problems for you 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 algorithms and program procedures, so you can write great code - even as a beginner!

[Go Programming Language For Dummies](#) - Wei-Meng Lee 2021-04-27
Ready, set, program with Go! Now is the perfect time to learn the Go Programming Language. It's one of the most in-demand languages among tech recruiters and developers love its simplicity and power. Go Programming Language For Dummies is an easy way to add this top job

skill to your toolkit. Written for novice and experienced coders alike, this book traverses basic syntax, writing functions, organizing data, building packages, and interfacing with APIs. Go—or GoLang, as it's also known—has proven to be a strong choice for developers creating applications for the cloud-based world we live in. This book will put you on the path to using the language that's created some of today's leading web applications, so you can steer your career where you want to Go! Learn how Go works and start writing programs and modules Install and implement the most powerful third-party Go packages Use Go in conjunction with web services and MySQL databases Keep your codebase organized and use Go to structure data With this book, you can join the growing numbers of developers using Go to create 21st century solutions. Step inside to take start writing code that puts data in users' hands.

[CRACKING THE CODING INTERVIEW.](#) - Harry - The Anonymous Hactivist 2014-07-28

∞ Essential Java Interview Skills--Made Easy! ∞ I mentioned approx 2000+ Java Technical Questions and 200+ Non- Technical Questions for before the technical round. This book is world's Biggest Java Interview book you ever read. That's why this book is Best-selling book of 2014 in Job Hunting & Campus Interview of Top MNC's. Must See sample of this book or at the end of description please see "Inside Contents" press down key and see how beautiful interview book it is. The main objective of this interview book is not to give you just magical interview question & tricks, I have followed a pattern of improving the question solution with deep Questions-Answers explanations with different interview complexities for each interview problem, you will find multiple solutions for complex interview questions. What Special - In this book I covered and explained several topics of latest Java 8 Features in detail for Developers & Freshers, Topics Like- Lambdas. Java 8 Functional interface, Stream and Time API. As a job seeker if you read the complete book with good understanding & seriously, i am 101% sure you will challenge any Interview & Interviewers (Specially Java) in this world. and this is the objective of this book. This book contains more than Two

Thousands Technical Java Questions and 200 Non-Technical Questions like before This book is very much useful for I.T professionals and the students of Engineering Degree and Masters during their Campus Interview and academic preparations. If you read as a student preparing for Interview for Computer Science or Information Technology, the content of this book covers all the required topics in full details. While writing the book, an intense care has been taken to help students who are preparing for these kinds of technical interview rounds. Both Physical Paperback and Digital Editions Are Available on LuLu.com & Amazon.com ||Google Books & Google Play Book Stores , Order today and Get a Discounted Copy. According to the Last year and this year Data that we have collected from different sources, More than 5,67,000 students and IT professionals gone through this book and Successfully Cracked their jobs in IT industry and Other industries as well. Don't Forget to write a customer review or comment about this book. For Data structure and Algorithms & C-C++ Interview questions, Read Harry's Upcoming Book- "Cracking the C & C++ Interview" and Cracking the "Algorithms Interview" Tell your friends about this ultimate Java Book. ∞ Inside Topics at a Glance ∞ 01.Preface, Hold On ! First Read It ! It will Help You ! 02.Interview Myths. 03.Convincing them you're right for the job. 04.Can you do the job? 05.Your potential to tackle New Tasks. 06.Employers Love Motivated Employees. 07.The 'Big Five' Questions. 08.Building Rapport and Trust. 09.Ten Effective Answers To Common Questions. 10.The Apple Interview. 11.The Google Interview. 12.The Microsoft Interview. 13.The Yahoo Interview. 14.The Facebook Interview. 15.Interview FAQ'S - I 16.How to Prepare for Technical Questions. 17.Handling Technical Questions in easy way. 18.Top Ten Mistakes Candidates Make. 19.The 16 Most Revealing Interview Questions & Answers. 20.Java Interview Questions & Answers. 350+ Q/A (PART-1) 21.Java Interview Questions & Answers. 350+ Q/A (PART-2) 22.Java Interview Questions & Answers. 250+ Q/A (PART- 3) 23.Top 10+ Advance Java Que-Ans for Experienced Programmers. 24.Java Random All-In-One Que-Answers 50+ Q/A (PART- 4) 25.Java Random All-In-One Que-Answers 250+ Q/A (PART- 5) 26.Java Concurrency Interview Que-

Answers 27.Java Collection Interview Que-Answers 40+ 28.Java Exception Interview Que-Answers 15+ 29.Java Interview Brain Wash Que & Ans. 201+ Q/A (PART- 6) 30.Java 8 Features for Developers - Lambdas.(PART- 7) 31.Java 8 Functional interface,Stream & Time API. (PART- 8) 32.Java Random Brain Drills Que-Answers 50+ 33.Java Random String Que-Answers 20+ 34.Finally Kick on Java and Say Bye Bye.. 35.Java Coding Standards (Advance) 36.Java Code Clarity/Maintainability/ 37.Java DataBase Issues/Analysis. 38.Dress/Body Appropriately Guidelines By Pictures & Graphics.

Mastering Java for Data Science - Alexey Grigorev 2017-04-27

Use Java to create a diverse range of Data Science applications and bring Data Science into production About This Book An overview of modern Data Science and Machine Learning libraries available in Java Coverage of a broad set of topics, going from the basics of Machine Learning to Deep Learning and Big Data frameworks. Easy-to-follow illustrations and the running example of building a search engine. Who This Book Is For This book is intended for software engineers who are comfortable with developing Java applications and are familiar with the basic concepts of data science. Additionally, it will also be useful for data scientists who do not yet know Java but want or need to learn it. If you are willing to build efficient data science applications and bring them in the enterprise environment without changing the existing stack, this book is for you! What You Will Learn Get a solid understanding of the data processing toolbox available in Java Explore the data science ecosystem available in Java Find out how to approach different machine learning problems with Java Process unstructured information such as natural language text or images Create your own search engine Get state-of-the-art performance with XGBoost Learn how to build deep neural networks with DeepLearning4j Build applications that scale and process large amounts of data Deploy data science models to production and evaluate their performance In Detail Java is the most popular programming language, according to the TIOBE index, and it is a typical choice for running production systems in many companies, both in the startup world and among large enterprises. Not surprisingly, it is also a common choice for

creating data science applications: it is fast and has a great set of data processing tools, both built-in and external. What is more, choosing Java for data science allows you to easily integrate solutions with existing software, and bring data science into production with less effort. This book will teach you how to create data science applications with Java. First, we will revise the most important things when starting a data science application, and then brush up the basics of Java and machine learning before diving into more advanced topics. We start by going over the existing libraries for data processing and libraries with machine learning algorithms. After that, we cover topics such as classification and regression, dimensionality reduction and clustering, information retrieval and natural language processing, and deep learning and big data. Finally, we finish the book by talking about the ways to deploy the model and evaluate it in production settings. Style and approach This is a practical guide where all the important concepts such as classification, regression, and dimensionality reduction are explained with the help of examples.

Java: A Beginner's Guide, Eighth Edition - Herbert Schildt
2018-11-09

A practical introduction to Java programming—fully revised for long-term support release Java SE 11 Thoroughly updated for Java Platform Standard Edition 11, this hands-on resource shows, step by step, how to get started programming in Java from the very first chapter. Written by Java guru Herbert Schildt, the book starts with the basics, such as how to create, compile, and run a Java program. From there, you will learn essential Java keywords, syntax, and commands. Java: A Beginner's Guide, Eighth Edition covers the basics and touches on advanced features, including multithreaded programming, generics, Lambda expressions, and Swing. Enumeration, modules, and interface methods are also clearly explained. This Oracle Press guide delivers the appropriate mix of theory and practical coding necessary to get you up and running developing Java applications in no time. •Clearly explains all of the new Java SE 11 features •Features self-tests, exercises, and downloadable code samples •Written by bestselling author and leading

Java authority Herbert Schildt

Learn Java in One Day and Learn It Well - Jamie Chan 2016-10-07
New Book by Best-Selling Author Jamie Chan. Learn Java Programming Fast with a unique Hands-On Project. Book 4 of the Learn Coding Fast Series. Have you always wanted to learn computer programming but are afraid it'll be too difficult for you? Or perhaps you know other programming languages but are interested in learning the Java language fast? This book is for you. You no longer have to waste your time and money trying to learn Java from boring books that are 600 pages long, expensive online courses or complicated Java tutorials that just leave you more confused and frustrated. What this book offers... Java for Beginners Complex concepts are broken down into simple steps to ensure that you can easily master the Java language even if you have never coded before. Carefully Chosen Java Examples Examples are carefully chosen to illustrate all concepts. In addition, the output for all examples are provided immediately so you do not have to wait till you have access to your computer to test the examples. Careful selection of topics (Covers Java 8) Topics are carefully selected to give you a broad exposure to Java, while not overwhelming you with information overload. These topics include object-oriented programming concepts, error handling techniques, file handling techniques and more. In addition, new features in Java (such as lambda expressions and default methods etc) are also covered so that you are always up to date with the latest advancement in the Java language. Learn The Java Programming Language Fast Concepts are presented in a "to-the-point" style to cater to the busy individual. You no longer have to endure boring and lengthy Java textbooks that simply puts you to sleep. With this book, you can learn Java fast and start coding immediately. How is this book different... The best way to learn Java is by doing. This book includes a unique project at the end of the book that requires the application of all the concepts taught previously. Working through the project will not only give you an immense sense of achievement, it'll also help you retain the knowledge and master the language. Are you ready to dip your toes into the exciting world of Java coding? This book is for you. Click the "Add to Cart" button

and download it now. What you'll learn: Introduction to Java - What is Java? - What software do you need to code Java programs? - How to install and run JDK and Netbeans? Data types and Operators - What are the eight primitive types in Java? - What are arrays and lists? - How to format Java strings - What is a primitive type vs reference type? - What are the common Java operators? Object Oriented Programming - What is object oriented programming? - How to write your own classes - What are fields, methods and constructors? - What is encapsulation, inheritance and polymorphism? - What is an abstract class and interface? Controlling the Flow of a Program - What are condition statements? - How to use control flow statements in Java - How to handle errors and exceptions - How to throw your own exception and Others... - How to accept user inputs and display outputs - What is a generic? - What are lambda expressions and functional interface? - How to work with external files ...and so much more.... Finally, you'll be guided through a hands-on project that requires the application of all the topics covered. Click the BUY button at the top of this page now to start learning Java. Learn it fast and learn it well.

Elements of Programming Interviews - Adnan Aziz 2012-10-11

The core of EPI is a collection of over 300 problems with detailed solutions, including 100 figures, 250 tested programs, and 150 variants. The problems are representative of questions asked at the leading software companies. The book begins with a summary of the nontechnical aspects of interviewing, such as common mistakes, strategies for a great interview, perspectives from the other side of the table, tips on negotiating the best offer, and a guide to the best ways to use EPI. The technical core of EPI is a sequence of chapters on basic and advanced data structures, searching, sorting, broad algorithmic principles, concurrency, and system design. Each chapter consists of a brief review, followed by a broad and thought-provoking series of problems. We include a summary of data structure, algorithm, and problem solving patterns.

Java: Data Science Made Easy - Richard M. Reese 2017-07-07

Data collection, processing, analysis, and more About This Book Your

entry ticket to the world of data science with the stability and power of Java Explore, analyse, and visualize your data effectively using easy-to-follow examples A highly practical course covering a broad set of topics - from the basics of Machine Learning to Deep Learning and Big Data frameworks. Who This Book Is For This course is meant for Java developers who are comfortable developing applications in Java, and now want to enter the world of data science or wish to build intelligent applications. Aspiring data scientists with some understanding of the Java programming language will also find this book to be very helpful. If you are willing to build efficient data science applications and bring them in the enterprise environment without changing your existing Java stack, this book is for you! What You Will Learn Understand the key concepts of data science Explore the data science ecosystem available in Java Work with the Java APIs and techniques used to perform efficient data analysis Find out how to approach different machine learning problems with Java Process unstructured information such as natural language text or images, and create your own search Learn how to build deep neural networks with DeepLearning4j Build data science applications that scale and process large amounts of data Deploy data science models to production and evaluate their performance In Detail Data science is concerned with extracting knowledge and insights from a wide variety of data sources to analyse patterns or predict future behaviour. It draws from a wide array of disciplines including statistics, computer science, mathematics, machine learning, and data mining. In this course, we cover the basic as well as advanced data science concepts and how they are implemented using the popular Java tools and libraries. The course starts with an introduction of data science, followed by the basic data science tasks of data collection, data cleaning, data analysis, and data visualization. This is followed by a discussion of statistical techniques and more advanced topics including machine learning, neural networks, and deep learning. You will examine the major categories of data analysis including text, visual, and audio data, followed by a discussion of resources that support parallel implementation. Throughout this course, the chapters will illustrate a challenging data science problem, and then

go on to present a comprehensive, Java-based solution to tackle that problem. You will cover a wide range of topics - from classification and regression, to dimensionality reduction and clustering, deep learning and working with Big Data. Finally, you will see the different ways to deploy the model and evaluate it in production settings. By the end of this course, you will be up and running with various facets of data science using Java, in no time at all. This course contains premium content from two of our recently published popular titles: Java for Data Science Mastering Java for Data Science Style and approach This course follows a tutorial approach, providing examples of each of the concepts covered. With a step-by-step instructional style, this book covers various facets of data science and will get you up and running quickly.

Classic Computer Science Problems in Java - David Kopec
2020-12-21

Sharpen your coding skills by exploring established computer science problems! Classic Computer Science Problems in Java challenges you with time-tested scenarios and algorithms. Summary Sharpen your coding skills by exploring established computer science problems! Classic Computer Science Problems in Java challenges you with time-tested scenarios and algorithms. You'll work through a series of exercises based in computer science fundamentals that are designed to improve your software development abilities, improve your understanding of artificial intelligence, and even prepare you to ace an interview. As you work through examples in search, clustering, graphs, and more, you'll remember important things you've forgotten and discover classic solutions to your "new" problems! Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the technology Whatever software development problem you're facing, odds are someone has already uncovered a solution. This book collects the most useful solutions devised, guiding you through a variety of challenges and tried-and-true problem-solving techniques. The principles and algorithms presented here are guaranteed to save you countless hours in project after project. About the book Classic Computer Science Problems in Java is a master

class in computer programming designed around 55 exercises that have been used in computer science classrooms for years. You'll work through hands-on examples as you explore core algorithms, constraint problems, AI applications, and much more. What's inside Recursion, memoization, and bit manipulation Search, graph, and genetic algorithms Constraint-satisfaction problems K-means clustering, neural networks, and adversarial search About the reader For intermediate Java programmers. About the author David Kopec is an assistant professor of Computer Science and Innovation at Champlain College in Burlington, Vermont. Table of Contents 1 Small problems 2 Search problems 3 Constraint-satisfaction problems 4 Graph problems 5 Genetic algorithms 6 K-means clustering 7 Fairly simple neural networks 8 Adversarial search 9 Miscellaneous problems 10 Interview with Brian Goetz
C in Depth : - Harry. H. Chaudhary. 2014-07-07

Essential C Programming Skills-Made Easy-Without Fear! Write powerful C programs...without becoming a technical expert! This book is the fastest way to get comfortable with C, one incredibly clear and easy step at a time. You'll learn all the basics: how to organize programs, store and display data, work with variables, operators, I/O, pointers, arrays, functions, and much more. C programming has never been this simple! This C Programming book gives a good start and complete introduction for C Programming for Beginner's. Learn the all basics and advanced features of C programming in no time from Bestselling Programming Author Harry. H. Chaudhary. This Book, starts with the basics; I promise this book will make you 100% expert level champion of C Programming. This book contains 1000+ Live C Program's code examples, and 500+ Lab Exercise & 200+ Brain Wash Topic-wise Code book and 20+ Live software Development Project's. All what you need ! Isn't it ? Write powerful C programs...without becoming a technical expert! This book is the fastest way to get comfortable with C, one incredibly clear and easy step at a time. You'll learn all the basics: how to organize programs, store and display data, work with variables, operators, I/O, pointers, arrays, functions, and much more. (See Below List)C programming has never been this simple! Who knew how simple C

programming could be? This is today's best beginner's guide to writing C programs—and to learning skills you can use with practically any language. Its simple, practical instructions will help you start creating useful, reliable C code. This book covers common core syllabus for BCA, MCA, B.TECH, BS (CS), MS (CS), BSC-IT (CS), MSC-IT (CS), and Computer Science Professionals as well as for Hackers. This Book is very serious C Programming stuff: A complete introduction to C Language. You'll learn everything from the fundamentals to advanced topics. If you've read this book, you know what to expect a visually rich format designed for the way your brain works. If you haven't, you're in for a treat. You'll see why people say it's unlike any other C book you've ever read. Learning a new language is no easy. You might think the problem is your brain. It seems to have a mind of its own, a mind that doesn't always want to take in the dry, technical stuff you're forced to study. The fact is your brain craves novelty. It's constantly searching, scanning, waiting for something unusual to happen. After all, that's the way it was built to help you stay alive. It takes all the routine, ordinary, dull stuff and filters it to the background so it won't interfere with your brain's real work—recording things that matter. How does your brain know what matters? (A) 1000+ Live C Program's code examples, (B) 500+ Lab Exercises, (C) 200+ Brain Wash Topic-wise Code (D) 20+ Live software Development Project's. (E) Learn Complete C- without fear, . || Inside Chapters. || 1. Preface - Page-6, || Introduction to C. 2. Elements of C Programming Language. 3. Control statements (conditions). 4. Control statements (Looping). 5. One dimensional Array. 6. Multi-Dimensional Array. 7. String (Character Array). 8. Your Brain on Functions. 9. Your Brain on Pointers. 10. Structure, Union, Enum, Bit Fields, Typedef. 11. Console Input and Output. 12. File Handling In C. 13. Miscellaneous Topics. 14. Storage Class. 15. Algorithms. 16. Unsolved Practical Problems. 17. PART-II-120+ Practical Code Chapter-Wise. 18. Creating & Inserting own functions in Librery. 19. Graphics Programming In C. 20. Operating System Development -Intro. 21. C Programming Guidelines. 22. Common C Programming Errors. 23. Live Software Development Using C.

Java: Data Science Made Easy - Richard M. Reese 2017-07-07

Data collection, processing, analysis, and moreAbout This Book* Your entry ticket to the world of data science with the stability and power of Java* Explore, analyse, and visualize your data effectively using easy-to-follow examples* A highly practical course covering a broad set of topics - from the basics of Machine Learning to Deep Learning and Big Data frameworks.Who This Book Is ForThis course is meant for Java developers who are comfortable developing applications in Java, and now want to enter the world of data science or wish to build intelligent applications. Aspiring data scientists with some understanding of the Java programming language will also find this book to be very helpful. If you are willing to build efficient data science applications and bring them in the enterprise environment without changing your existing Java stack, this book is for you! What You Will Learn* Understand the key concepts of data science* Explore the data science ecosystem available in Java* Work with the Java APIs and techniques used to perform efficient data analysis* Find out how to approach different machine learning problems with Java* Process unstructured information such as natural language text or images, and create your own search* Learn how to build deep neural networks with DeepLearning4j* Build data science applications that scale and process large amounts of data* Deploy data science models to production and evaluate their performanceIn DetailData science is concerned with extracting knowledge and insights from a wide variety of data sources to analyse patterns or predict future behaviour. It draws from a wide array of disciplines including statistics, computer science, mathematics, machine learning, and data mining. In this course, we cover the basic as well as advanced data science concepts and how they are implemented using the popular Java tools and libraries.The course starts with an introduction of data science, followed by the basic data science tasks of data collection, data cleaning, data analysis, and data visualization. This is followed by a discussion of statistical techniques and more advanced topics including machine learning, neural networks, and deep learning. You will examine the major categories of data analysis including text, visual, and audio data, followed by a

discussion of resources that support parallel implementation. Throughout this course, the chapters will illustrate a challenging data science problem, and then go on to present a comprehensive, Java-based solution to tackle that problem. You will cover a wide range of topics - from classification and regression, to dimensionality reduction and clustering, deep learning and working with Big Data. Finally, you will see the different ways to deploy the model and evaluate it in production settings. By the end of this course, you will be up and running with various facets of data science using Java, in no time at all. This course contains premium content from two of our recently published popular titles: *Java for Data Science* Mastering Java for Data Science Style and approach This course follows a tutorial approach, providing examples of each of the concepts covered. With a step-by-step instructional style, this book covers various facets of data science and will get you up and running quickly.

The C++ Standard Library - Nicolai M. Josuttis 2012-05-25

The Best-Selling C++ Resource Now Updated for C++11 The C++ standard library provides a set of common classes and interfaces that greatly extend the core C++ language. The library, however, is not self-explanatory. To make full use of its components—and to benefit from their power—you need a resource that does far more than list the classes and their functions. The C++ Standard Library: A Tutorial and Reference, Second Edition, describes this library as now incorporated into the new ANSI/ISO C++ language standard (C++11). The book provides comprehensive documentation of each library component, including an introduction to its purpose and design; clearly written explanations of complex concepts; the practical programming details needed for effective use; traps and pitfalls; the exact signature and definition of the most important classes and functions; and numerous examples of working code. The book focuses in particular on the Standard Template Library (STL), examining containers, iterators, function objects, and STL algorithms. The book covers all the new C++11 library components, including Concurrency Fractional arithmetic Clocks and timers Tuples New STL containers New STL algorithms New smart pointers New locale

facets Random numbers and distributions Type traits and utilities Regular expressions The book also examines the new C++ programming style and its effect on the standard library, including lambdas, range-based for loops, move semantics, and variadic templates. An accompanying Web site, including source code, can be found at www.cppstdlib.com.

Developing Games in Java - David Brackeen 2004

A guide to Java game programming techniques covers such topics as 2D and 3D graphics, sound, artificial intelligence, multi-player games, collision detection, game scripting and customizing keyboard and mouse controls.

Introduction to Neural Networks with Java - Jeff Heaton 2005

In addition to showing the programmer how to construct Neural Networks, the book discusses the Java Object Oriented Neural Engine (JOONE), a free open source Java neural engine. (Computers)

Hands-On Artificial Intelligence with Java for Beginners - Nisheeth Joshi 2018-08-31

Build, train, and deploy intelligent applications using Java libraries Key Features Leverage the power of Java libraries to build smart applications Build and train deep learning models for implementing artificial intelligence Learn various algorithms to automate complex tasks Book Description Artificial intelligence (AI) is increasingly in demand as well as relevant in the modern world, where everything is driven by technology and data. AI can be used for automating systems or processes to carry out complex tasks and functions in order to achieve optimal performance and productivity. Hands-On Artificial Intelligence with Java for Beginners begins by introducing you to AI concepts and algorithms. You will learn about various Java-based libraries and frameworks that can be used in implementing AI to build smart applications. In addition to this, the book teaches you how to implement easy to complex AI tasks, such as genetic programming, heuristic searches, reinforcement learning, neural networks, and segmentation, all with a practical approach. By the end of this book, you will not only have a solid grasp of AI concepts, but you'll also be able to build your own smart applications

for multiple domains. What you will learn Leverage different Java packages and tools such as Weka, RapidMiner, and Deeplearning4j, among others Build machine learning models using supervised and unsupervised machine learning techniques Implement different deep learning algorithms in Deeplearning4j and build applications based on them Study the basics of heuristic searching and genetic programming Differentiate between syntactic and semantic similarity among texts Perform sentiment analysis for effective decision making with LingPipe Who this book is for Hands-On Artificial Intelligence with Java for Beginners is for Java developers who want to learn the fundamentals of artificial intelligence and extend their programming knowledge to build smarter applications.

Mastering Java Machine Learning - Dr. Uday Kamath 2017-07-11
Become an advanced practitioner with this progressive set of master classes on application-oriented machine learning About This Book Comprehensive coverage of key topics in machine learning with an emphasis on both the theoretical and practical aspects More than 15 open source Java tools in a wide range of techniques, with code and practical usage. More than 10 real-world case studies in machine learning highlighting techniques ranging from data ingestion up to analyzing the results of experiments, all preparing the user for the practical, real-world use of tools and data analysis. Who This Book Is For This book will appeal to anyone with a serious interest in topics in Data Science or those already working in related areas: ideally, intermediate-level data analysts and data scientists with experience in Java. Preferably, you will have experience with the fundamentals of machine learning and now have a desire to explore the area further, are up to grappling with the mathematical complexities of its algorithms, and you wish to learn the complete ins and outs of practical machine learning. What You Will Learn Master key Java machine learning libraries, and what kind of problem each can solve, with theory and practical guidance. Explore powerful techniques in each major category of machine learning such as classification, clustering, anomaly detection, graph modeling, and text mining. Apply machine learning to real-world data with

methodologies, processes, applications, and analysis. Techniques and experiments developed around the latest specializations in machine learning, such as deep learning, stream data mining, and active and semi-supervised learning. Build high-performing, real-time, adaptive predictive models for batch- and stream-based big data learning using the latest tools and methodologies. Get a deeper understanding of technologies leading towards a more powerful AI applicable in various domains such as Security, Financial Crime, Internet of Things, social networking, and so on. In Detail Java is one of the main languages used by practicing data scientists; much of the Hadoop ecosystem is Java-based, and it is certainly the language that most production systems in Data Science are written in. If you know Java, Mastering Machine Learning with Java is your next step on the path to becoming an advanced practitioner in Data Science. This book aims to introduce you to an array of advanced techniques in machine learning, including classification, clustering, anomaly detection, stream learning, active learning, semi-supervised learning, probabilistic graph modeling, text mining, deep learning, and big data batch and stream machine learning. Accompanying each chapter are illustrative examples and real-world case studies that show how to apply the newly learned techniques using sound methodologies and the best Java-based tools available today. On completing this book, you will have an understanding of the tools and techniques for building powerful machine learning models to solve data science problems in just about any domain. Style and approach A practical guide to help you explore machine learning—and an array of Java-based tools and frameworks—with the help of practical examples and real-world use cases.

Java Artificial Intelligence - Code Well Academy 2016-04-10
Design the MIND of a Robotic Thinker! " The author of this book did an excellent job and by reading this book I am impressed. This book is well written and every lesson is very clearly described. " - Patrick Garrity, from Amazon.com " " When I saw this book, I was immediately drawn to the title of the book. I am glad that I got the chance to download this book. " - Jasmine Torres, from Amazon.com " " Code Well Academy put

together a very comprehensive easy to read guide to walk me through from start to finish. " " - Jessica Cece, from Amazon.com " * * INCLUDED BONUS: a Quick-start guide to Learning Java in less than a Day! * * How would you like to Create the Next SIRI? Artificial Intelligence. One of the most brilliant creations of mankind. No longer a sci-fi fantasy, but a realistic approach to making work more efficient and lives easier. And the best news? It's not that complicated after all Does it require THAT much advanced math? NO! And are you paying THOUSANDS of dollars just to learn this information? 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: - Complicated scheduling problem? Here's how to solve it. - How good are your AI algorithms? Analysis for Efficiency - How to interpret a system into logical code for the AI - How would an AI system would diagnose a system? We show you... - Getting an AI agent to solve problems for you 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 algorithms and program procedures, so you can write great code - even as a beginner!

Java Deep Learning Cookbook - Rahul Raj 2019-11-08

Use Java and Deeplearning4j to build robust, scalable, and highly accurate AI models from scratch Key Features Install and configure Deeplearning4j to implement deep learning models from scratch Explore recipes for developing, training, and fine-tuning your neural network models in Java Model neural networks using datasets containing images, text, and time-series data Book Description Java is one of the most widely used programming languages in the world. With this book, you will see how to perform deep learning using Deeplearning4j (DL4J) - the most popular Java library for training neural networks efficiently. This book starts by showing you how to install and configure Java and DL4J on your system. You will then gain insights into deep learning basics and use your knowledge to create a deep neural network for binary classification from scratch. As you progress, you will discover how to build a convolutional neural network (CNN) in DL4J, and understand how to

construct numeric vectors from text. This deep learning book will also guide you through performing anomaly detection on unsupervised data and help you set up neural networks in distributed systems effectively. In addition to this, you will learn how to import models from Keras and change the configuration in a pre-trained DL4J model. Finally, you will explore benchmarking in DL4J and optimize neural networks for optimal results. By the end of this book, you will have a clear understanding of how you can use DL4J to build robust deep learning applications in Java. What you will learn Perform data normalization and wrangling using DL4J Build deep neural networks using DL4J Implement CNNs to solve image classification problems Train autoencoders to solve anomaly detection problems using DL4J Perform benchmarking and optimization to improve your model's performance Implement reinforcement learning for real-world use cases using RL4J Leverage the capabilities of DL4J in distributed systems Who this book is for If you are a data scientist, machine learning developer, or a deep learning enthusiast who wants to implement deep learning models in Java, this book is for you. Basic understanding of Java programming as well as some experience with machine learning and neural networks is required to get the most out of this book.

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.

Java for Data Science - Richard M. Reese 2017-01-10

Examine the techniques and Java tools supporting the growing field of data science About This Book Your entry ticket to the world of data science with the stability and power of Java Explore, analyse, and visualize your data effectively using easy-to-follow examples Make your Java applications more capable using machine learning Who This Book Is For This book is for Java developers who are comfortable developing

applications in Java. Those who now want to enter the world of data science or wish to build intelligent applications will find this book ideal. Aspiring data scientists will also find this book very helpful. What You Will Learn Understand the nature and key concepts used in the field of data science Grasp how data is collected, cleaned, and processed Become comfortable with key data analysis techniques See specialized analysis techniques centered on machine learning Master the effective visualization of your data Work with the Java APIs and techniques used to perform data analysis In Detail Data science is concerned with extracting knowledge and insights from a wide variety of data sources to analyse patterns or predict future behaviour. It draws from a wide array of disciplines including statistics, computer science, mathematics, machine learning, and data mining. In this book, we cover the important data science concepts and how they are supported by Java, as well as the often statistically challenging techniques, to provide you with an understanding of their purpose and application. The book starts with an introduction of data science, followed by the basic data science tasks of data collection, data cleaning, data analysis, and data visualization. This is followed by a discussion of statistical techniques and more advanced topics including machine learning, neural networks, and deep learning. The next section examines the major categories of data analysis including text, visual, and audio data, followed by a discussion of resources that support parallel implementation. The final chapter illustrates an in-depth data science problem and provides a comprehensive, Java-based solution. Due to the nature of the topic, simple examples of techniques are presented early followed by a more detailed treatment later in the book. This permits a more natural introduction to the techniques and concepts presented in the book. Style and approach This book follows a tutorial approach, providing examples of each of the major concepts covered. With a step-by-step instructional style, this book covers various facets of data science and will get you up and running quickly.

Machine Learning in Java - AshishSingh Bhatia 2018-11-28

Leverage the power of Java and its associated machine learning libraries

to build powerful predictive models Key FeaturesSolve predictive modeling problems using the most popular machine learning Java libraries Explore data processing, machine learning, and NLP concepts using JavaML, WEKA, MALLET librariesPractical examples, tips, and tricks to help you understand applied machine learning in JavaBook Description As the amount of data in the world continues to grow at an almost incomprehensible rate, being able to understand and process data is becoming a key differentiator for competitive organizations. Machine learning applications are everywhere, from self-driving cars, spam detection, document search, and trading strategies, to speech recognition. This makes machine learning well-suited to the present-day era of big data and Data Science. The main challenge is how to transform data into actionable knowledge. Machine Learning in Java will provide you with the techniques and tools you need. You will start by learning how to apply machine learning methods to a variety of common tasks including classification, prediction, forecasting, market basket analysis, and clustering. The code in this book works for JDK 8 and above, the code is tested on JDK 11. Moving on, you will discover how to detect anomalies and fraud, and ways to perform activity recognition, image recognition, and text analysis. By the end of the book, you will have explored related web resources and technologies that will help you take your learning to the next level. By applying the most effective machine learning methods to real-world problems, you will gain hands-on experience that will transform the way you think about data. What you will learnDiscover key Java machine learning librariesImplement concepts such as classification, regression, and clusteringDevelop a customer retention strategy by predicting likely churn candidatesBuild a scalable recommendation engine with Apache MahoutApply machine learning to fraud, anomaly, and outlier detectionExperiment with deep learning concepts and algorithmsWrite your own activity recognition model for eHealth applicationsWho this book is for If you want to learn how to use Java's machine learning libraries to gain insight from your data, this book is for you. It will get you up and running quickly and provide you with the skills you need to successfully create, customize,

and deploy machine learning applications with ease. You should be familiar with Java programming and some basic data mining concepts to make the most of this book, but no prior experience with machine learning is required.

Javascript Artificial Intelligence - Code Well Academy 2016-04-15
Design the MIND of a Robotic Thinker! " This book will help you get started with this exciting language and gives you an idea of what is possible. " - Melchizedek B, from Amazon.com " The examples it uses are easy to follow and the illustrations bring out the more complex aspects while making them simple. " - C. Brant, from Amazon.com " Such a cool book that covers basic Javascript programming then incorporates tools and components to explore Artificial Intelligence. " - M. Gavel, from Amazon.com * * INCLUDED BONUS: a Quick-start guide to Learning Javascript in less than a Day! * * How would you like to Create the Next SIRI? Artificial Intelligence. One of the most brilliant creations of mankind. No longer a sci-fi fantasy, but a realistic approach to making work more efficient and lives easier.And the best news? It's not that complicated after all Does it require THAT much advanced math? NO!And are you paying THOUSANDS of dollars just to learn this information? 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: - Complicated scheduling problem? Here's how to solve it. - How good are your AI algorithms? Analysis for Efficiency- How to interpret a system into logical code for the AI- How would an AI system would diagnose a system? We show you...- Getting an AI agent to solve problems for youand Much, much more!World-Class TrainingThis book breaks your training down into easy-to-understand modules. It starts from the very essentials of algorithms and program procedures, so you can write great code - even as a beginner!

Learn Java the Easy Way - Bryson Payne 2017-11-14

Java is the world's most popular programming language, but it's known for having a steep learning curve. Learn Java the Easy Way takes the chore out of learning Java with hands-on projects that will get you building real, functioning apps right away. You'll start by familiarizing

yourself with JShell, Java's interactive command line shell that allows programmers to run single lines of code and get immediate feedback. Then, you'll create a guessing game, a secret message encoder, and a multitouch bubble-drawing app for both desktop and mobile devices using Eclipse, an industry-standard IDE, and Android Studio, the development environment for making Android apps. As you build these apps, you'll learn how to: -Perform calculations, manipulate text strings, and generate random colors -Use conditions, loops, and methods to make your programs responsive and concise -Create functions to reuse code and save time -Build graphical user interface (GUI) elements, including buttons, menus, pop-ups, and sliders -Take advantage of Eclipse and Android Studio features to debug your code and find, fix, and prevent common mistakes If you've been thinking about learning Java, *Learn Java the Easy Way* will bring you up to speed in no time.

Java for Absolute Beginners - Iuliana Cosmina 2018-12-05

Write your first code in Java using simple, step-by-step examples that model real-world objects and events, making learning easy. With this book you'll be able to pick up the concepts without fuss. *Java for Absolute Beginners* teaches Java development in language anyone can understand, giving you the best possible start. You'll see clear code descriptions and layout so that you can get your code running as soon as possible. After reading this book, you'll come away with the basics to get started writing programs in Java. Author Iuliana Cosmina focuses on practical knowledge and getting up to speed quickly—all the bits and pieces a novice needs to get started programming in Java. First, you'll discover how Java is executed, what type of language it is, and what it is good for. With the theory out of the way, you'll install Java, choose an editor such as IntelliJ IDEA, and write your first simple Java program. Along the way you'll compile and execute this program so it can run on any platform that supports Java. As part of this tutorial you'll see how to write high-quality code by following conventions and respecting well-known programming principles, making your projects more professional and efficient. Finally, alongside the core features of Java, you'll learn skills in some of the newest and most exciting features of the language:

Generics, Lambda expressions, modular organization, local-variable type inference, and local variable syntax for Lambda expressions. *Java for Absolute Beginners* gives you all you need to start your Java 9+ programming journey. No experience necessary. What You'll Learn Use data types, operators, and the new stream API Install and use a build tool such as Gradle Build interactive Java applications with JavaFX Exchange data using the new JSON APIs Play with images using multi-resolution APIs Use the publish-subscribe framework Who This Book Is For Those who are new to programming and who want to start with Java.

Core Java Professional - Harry H. Chaudhary 2016-10-26

Essential Java Skills--Made Easy! =====Java: A Beginner's Guide,2016-17Learn the all basics and advanced features of Java programming in no time from Bestseller Java Programming Author Harry. H. Chaudhary.This Java Guide, starts with the basics and Leads to Advance features of Java in detail with thousands of Java Codes and new features of Java 8 like Lambdas. Java 8 Functional interface, || Stream and Time API in Java 8. , I promise this book will make you expert level champion of java. Anyone can learn java through this book at expert level.The main objective of this java book is not to give you just Java Programming Knowledge, I have followed a pattern of improving the question solution of thousands of Codes with clear theory explanations with different Java complexities for each java topic problem, and you will find multiple solutions for complex java problems. Engineering Students and fresh developers can also use this book. This book covers common core syllabus for all Computer Science Professional Degrees If you are really serious then go ahead and make your day with this ultimate java book.What Special - In this book I covered and explained several topics of latest Java 8 Features in detail for Developers & Fresher's, Topics Like- Lambdas. || Java 8 Functional interface, || Stream and Time API in Java 8. This Java book doesn't require previous programming experience. However, if you come from a C or C++ programming background, then you will be able to learn faster.Fully updated for Java Platform, (Java SE 8), *Java: A Beginner's Guide*,gets you started programming in Java right away. Bestselling programming author Herb Schildt begins with the

basics, such as how to create, compile, and run a Java program. He then moves on to the keywords, syntax, and constructs that form the core of the Java language. This Oracle Press resource also covers some of Java's more advanced features, including multithreaded programming, generics, and Swing. Of course, new Java SE 8 features such as lambda expressions and default interface methods are described. An introduction to JavaFX, Java's newest GUI, concludes this step-by-step tutorial.

Teach Yourself Java Programming in 31 Days : - Harry. H.

Chaudhary. 2014-08-15

Essential Java Skills--Made Easy! What Special - In this book I covered and explained several topics of latest Java 8 Features in detail for Developers & Fresher's, Topics Like- Lambdas. || Java 8 Functional interface, || Stream and Time API in Java 8. This Java book doesn't require previous programming experience. However, if you come from a C or C++ programming background, then you will be able to learn faster. Learn the all basics and advanced features of Java programming in no time from Bestseller Java Programming Author Harry. H. Chaudhary (More than 1,67,000 Books Sold !). This Java Guide, starts with the basics and Leads to Advance features of Java in detail with thousands of Java Codes and new features of Java 8 like Lambdas. Java 8 Functional interface, || Stream and Time API in Java 8. , I promise this book will make you expert level champion of java. Anyone can learn java through this book at expert level. The main objective of this java book is not to give you just Java Programming Knowledge, I have followed a pattern of improving the question solution of thousands of Codes with clear theory explanations with different Java complexities for each java topic problem, and you will find multiple solutions for complex java problems. Engineering Students and fresh developers can also use this book. This book covers common core syllabus for all Computer Science Professional Degrees If you are really serious then go ahead and make your day with this ultimate java book. First Part- Teach you how to compile and run a Java program, shows you everything you need to develop, compile, debug, and run Java programs. And then discusses the keywords, syntax, and constructs that form the core of the Java

language. After that it leads you to advanced features of java, including multithreaded programming and Applets. Learning a new language is no easy task especially when it's an oop's programming language like Java. You might think the problem is your brain. It seems to have a mind of its own, a mind that doesn't always want to take in the dry, technical stuff you're forced to study. The fact is your brain craves novelty. This Java Book is very serious java stuff: A complete introduction to Java. You'll learn everything from the fundamentals to advanced topics, if you've read this book, you know what to expect--a visually rich format designed for the way your brain works. To use this book does not require any previous programming experience. However, if you come from a C/C++ background, then you will be able to advance a bit more rapidly. As most readers will know, Java is similar, in form and spirit, to C/C++. Thus, knowledge of those languages helps, but is not necessary. Even if you have never programmed before, you can learn to program in Java using this book. Inside Contents (Chapters): 1. (Overview of Java) 2.(Java Language) 3.(Control Statements) 4.(Scanner class, Arrays & Command Line Args) 5.(Class & Objects in Java) 6.(Inheritance in Java) 7.(Object oriented programming) 8.(Packages in Java) 9.(Interface in Java) 10.(String and StringBuffer) 11.(Exception Handling) 12.(Multi-Threaded Programming) 13.(Modifiers/Visibility modes) 14.(Wrapper Class) 15.(Input/Output in Java) 16.(Applet Fundamentals) 17.(Abstract Windows Toolkit)(AWT) 18.(Introduction To AWT Events) 19.(Painting in AWT) 20.(java.lang.Object Class) 21.(Collection Framework) PART - II (Java 8 Features for Developers) 22. Java 8 Features for Developers - Lambdas. 23. Java 8 Functional interface,Stream & Time API. 24. Key Features that Make Java More Secure than Other Languages.

Applications of Machine Learning - Prashant Johri 2020-05-04

This book covers applications of machine learning in artificial intelligence. The specific topics covered include human language, heterogeneous and streaming data, unmanned systems, neural information processing, marketing and the social sciences, bioinformatics and robotics, etc. It also provides a broad range of techniques that can be successfully applied and adopted in different

areas. Accordingly, the book offers an interesting and insightful read for scholars in the areas of computer vision, speech recognition, healthcare, business, marketing, and bioinformatics.

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