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IN ACTION

Claus Ibsen
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Gregor Hohpe and James Strachan

SAMPLE CHAPTER

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Alexander Romanovsky,Elena Troubitsyna,Ilir Gashi,Erwin Schoitsch,Friedemann Bitsch

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   Practical Machine Learning for Data Analysis Using Python Abdulhamit Subasi,2020-06-05 Practical Machine Learning for Data Analysis Using Python is a problem solver s guide for creating real world intelligent systems It provides a comprehensive approach with concepts practices hands on examples and sample code The book teaches readers the vital skills required to understand and solve different problems with machine learning It teaches machine learning techniques necessary to become a successful practitioner through the presentation of real world case studies in Python machine learning ecosystems The book also focuses on building a foundation of machine learning knowledge to solve different real world case studies across various fields including biomedical signal analysis healthcare security economics and finance Moreover it covers a wide range of machine learning models including regression classification and forecasting The goal of the book is to help a broad range of readers including IT professionals analysts developers data scientists engineers and graduate students to solve their own real world problems Offers a comprehensive overview of the application of machine learning tools in data analysis across a wide range of subject areas Teaches readers how to apply machine learning techniques to biomedical signals financial data and healthcare data Explores important classification and regression algorithms as well as other machine learning techniques Explains how to use Python to handle data extraction manipulation and exploration techniques as well as how to visualize data spread across multiple dimensions and extract useful features   **Hacker's Guide to Machine Learning Concepts** Trilokesh Khatri,2025-01-03 Hacker s Guide to Machine Learning Concepts is crafted for those eager to dive into the world of ethical hacking This book demonstrates how ethical hacking can help companies identify and fix vulnerabilities efficiently With the rise of data and the evolving IT industry the scope of ethical hacking continues to expand We cover various hacking techniques identifying weak points in programs and how to address them The book is accessible even to beginners offering chapters on machine learning and programming in Python Written in an easy to understand manner it allows learners to practice hacking steps independently on Linux or Windows systems using tools like Netsparker This book equips you with fundamental and intermediate knowledge about hacking making it an invaluable resource for learners   *MongoDB in Action, Third Edition* Arek Borucki,2025-08-19 Deliver flexible scalable and high performance data storage that s perfect for AI and other modern applications with MongoDB 8 0 and MongoDB Atlas multi cloud data platform In MongoDB 8 0 in Action Third Edition you ll find comprehensive coverage of the latest version of MongoDB 8 0 and the MongoDB Atlas multi cloud data platform Learn to utilize MongoDB s flexible schema design for data modeling scale applications effectively using advanced sharding features integrate full text and vector based semantic search and more This totally revised new edition delivers engaging hands on tutorials and examples that put MongoDB into action In MongoDB 8 0 in Action Third Edition you ll Master new features in MongoDB 8 0 Create your first free Atlas cluster using the Atlas CLI Design scalable NoSQL databases with effective data modeling techniques Master Vector Search for building

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the state of the art of application of intelligent techniques in different educational processes and settings We believe that the works presented in the book will be of great interest to readers and that will motivate them to try to enhance presented approaches and propose better and more advanced solutions **React Quickly** Azat Mardan,2017-08-20 Summary React Quickly is for anyone who wants to learn React js fast This hands on book teaches you the concepts you need with lots of examples tutorials and a large main project that gets built throughout the book Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the Technology Successful user interfaces need to be visually interesting fast and flowing The React js JavaScript library supercharges view heavy web applications by improving data flow between UI components React sites update visual elements efficiently and smoothly minimizing page reloads React is developer friendly with a strong ecosystem to support the dev process along the full application stack And because it s all JavaScript React is instantly familiar About the Book React Quickly is the tutorial for web developers who want to get started fast with React js Following carefully chosen and clearly explained examples you ll learn React development using your existing JavaScript and web dev skills You ll explore a host of different projects as you learn about web components forms and data What s Inside Master React fundamentals Build full web apps with data and routing Test components Optimize React apps About the Reader This book is for developers comfortable building web applications with JavaScript About the Author Azat Mardan is a Tech Fellow at Capital One with extensive experience using and teaching JavaScript and Node and author of several books on JavaScript Node React and Express Table of Contens PART 1 REACT FOUNDATION Meeting React Baby steps with React Introduction to JSX Making React interactive with states React component lifecycle events Handling events in React Working with forms in React Scaling React components Project Menu component Project Tooltip component Project Timer component PART 2 REACT ARCHITECTURE The Webpack build tool React routing Working with data using Redux Working with data using GraphQL Unit testing React with Jest React on Node and Universal JavaScript Project Building a bookstore with React Router Project Checking passwords with Jest Project Implementing autocomplete with Jest Express and MongoDB APPENDIXES Appendix A Installing applications used in this book Appendix B React cheatsheet Appendix C Express js cheatsheet Appendix D MongoDB and Mongoose cheatsheet Appendix E ES6 for success *AI as a Service* Peter Elger,Eóin Shanaghy,2020-09-05 AI as a Service is a practical handbook to building and implementing serverless AI applications without bogging you down with a lot of theory Instead you ll find easy to digest instruction and two complete hands on serverless AI builds in this must have guide Summary Companies everywhere are moving everyday business processes over to the cloud and AI is increasingly being given the reins in these tasks As this massive digital transformation continues the combination of serverless computing and AI promises to become the de facto standard for business to consumer platform development and developers who can design develop implement and maintain these systems will be in high demand AI as a Service is a practical handbook to building and implementing

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Diagnoser is offered to facilitate experimenting with and developing new fault localization algorithms Diagnoser takes a source code and its test suite as input and reports the coverage provided by the test cases and the suspiciousness score for each statement Part III proposes using software testing as a prominent part of the cyber physical system software to uncover and model unknown physical behaviors and the underlying physical rules The reader will get insights into developing software tools to generate white box test data **Drugs and Popular Culture in the Age of New Media** Paul Manning,2013-10-08 This book examines the history of popular drug cultures and mediated drug education and the ways in which new media including social networking and video file sharing sites transform the symbolic framework in which drugs and drug culture are represented Tracing the emergence of formal drug regulation in both the US and the United Kingdom from the late nineteenth century it argues that mass communication technologies were intimately connected to these control regimes from the very beginning Manning includes original archive research revealing official fears about the use of such mass communication technologies in Britain The second half of the book assesses on line popular drug culture considering the impact the problematic attempts by drug agencies in the US and the United Kingdom to harness new media and the implications of the emergence of many thousands of unofficial drug related sites *Microsoft Exchange Server 2013* Nathan Winters,Neil Johnson,Nicolas Blank,2013-07-12 Get the knowledge you need to deploy a top quality Exchange service The latest release of Microsoft s messaging system allows for easier access to e mail voicemail and calendars from a variety of devices and any location while also giving users more control and freeing up administrators to perform more critical tasks This innovative new field guide starts with key concepts of Microsoft Exchange Server 2013 and then moves through the recommended practices and processes that are necessary to deploy a top quality Exchange service Focuses on the Exchange ecosystem rather than just the features and functions of the Exchange product Focuses on scenarios facing real customers and explains how problems can be solved and requirements met Zooms in on both on premises deployments as well as Exchange Online cloud deployments with Office 365 Helps you thoroughly master the new version with step by step instruction on how to install configure and manage this multifaceted collaboration system Whether you re upgrading from Exchange Server 2010 or earlier installing for the first time or migrating from another system this step by step guide provides the hands on instruction practical application and real world advice you need **Soccer Analytics** Clive Beggs,2024-03-11 Sports analytics is on the rise with top soccer clubs bookmakers and broadcasters all employing statisticians and data scientists to gain an edge over their competitors Many popular books have been written exploring the mathematics of soccer However few supply details on how soccer data can be analysed in real life The book addresses this issue via a practical route one approach designed to show readers how to successfully tackle a range of soccer related problems using the easy to learn computer language R Through a series of easy to follow examples the book explains how R can be used to Download and edit soccer data Produce graphics and statistics Predict match outcomes and final league

positions Formulate betting strategies Rank teams Construct passing networks Assess match play Soccer Analytics An Introduction Using R is a comprehensive introduction to soccer analytics aimed at all those interested in analysing soccer data be they fans gamblers coaches sports scientists or data scientists and statisticians wishing to pursue a career in professional soccer It aims to equip the reader with the knowledge and skills required to confidently analyse soccer data using R all in a few easy lessons **The Saturday Review of Politics, Literature, Science and Art** ,1865 3D User Interfaces Doug A. Bowman,2005 Augmented mixed reality gestural 3d en multisensory interfaces **Handbook of Big Geospatial Data** Martin Werner,Yao-Yi Chiang,2021-05-07 This handbook covers a wide range of topics related to the collection processing analysis and use of geospatial data in their various forms This handbook provides an overview of how spatial computing technologies for big data can be organized and implemented to solve real world problems Diverse subdomains ranging from indoor mapping and navigation over trajectory computing to earth observation from space are also present in this handbook It combines fundamental contributions focusing on spatio textual analysis uncertain databases and spatial statistics with application examples such as road network detection or colocation detection using GPUs In summary this handbook gives an essential introduction and overview of the rich field of spatial information science and big geospatial data It introduces three different perspectives which together define the field of big geospatial data a societal governmental and governance perspective It discusses questions of how the acquisition distribution and exploitation of big geospatial data must be organized both on the scale of companies and countries A second perspective is a theory oriented set of contributions on arbitrary spatial data with contributions introducing into the exciting field of spatial statistics or into uncertain databases A third perspective is taking a very practical perspective to big geospatial data ranging from chapters that describe how big geospatial data infrastructures can be implemented and how specific applications can be implemented on top of big geospatial data This would include for example research in historic map data road network extraction damage estimation from remote sensing imagery or the analysis of spatio textual collections and social media This multi disciplinary approach makes the book unique This handbook can be used as a reference for undergraduate students graduate students and researchers focused on big geospatial data Professionals can use this book as well as practitioners facing big collections of geospatial data **Big Data Analytics** Kim H. Pries,Robert Dunnigan,2015-02-05 With this book managers and decision makers are given the tools to make more informed decisions about big data purchasing initiatives Big Data Analytics A Practical Guide for Managers not only supplies descriptions of common tools but also surveys the various products and vendors that supply the big data market Comparing and contrasting the dif *Deep Learning Models* Jonah Gamba,2024-04-09 This book focuses on and prioritizes a practical approach minimizing theoretical concepts to deliver algorithms effectively With deep learning emerging as a vibrant field of research and development in numerous industrial applications there is a pressing need for accessible resources that provide comprehensive examples and quick guidance

Unfortunately many existing books on the market tend to emphasize theoretical aspects leaving newcomers scrambling for practical guidance This book takes a different approach by focusing on practicality while keeping theoretical concepts to a necessary minimum The book begins by laying a foundation of basic information on deep learning gradually delving into the subject matter to explain and illustrate the limitations of existing algorithms A dedicated chapter is allocated to evaluating the performance of multiple algorithms on specific datasets highlighting techniques and strategies that can address real world challenges when deep learning is employed By consolidating all necessary information into a single resource readers can bypass the hassle of scouring scattered online sources gaining a one stop solution to dive into deep learning for object detection and classification To facilitate understanding the book employs a rich array of illustrations figures tables and code snippets Comprehensive code examples are provided empowering readers to grasp concepts quickly and develop practical solutions The book covers essential methods and tools ensuring a complete and comprehensive coverage that enables professionals to implement deep learning algorithms swiftly and effectively This book is designed to equip professionals with the necessary skills to thrive in the active field of deep learning where it has the potential to revolutionize traditional problem solving approaches This book serves as a practical companion enabling readers to grasp concepts swiftly and embark on building practical solutions   *Computer Safety, Reliability, and Security* Alexander Romanovsky,Elena Troubitsyna,Ilir Gashi,Erwin Schoitsch,Friedemann Bitsch,2019-09-02 This book constitutes the proceedings of the Workshops held in conjunction with SAFECOMP 2019 38th International Conference on Computer Safety Reliability and Security in September 2019 in Turku Finland The 32 regular papers included in this volume were carefully reviewed and selected from 43 submissions the book also contains two invited papers The workshops included in this volume are ASSURE 2019 7th International Workshop on Assurance Cases for Software Intensive Systems DECSoS 2019 14th ERCIM EWICS ARTEMIS Workshop on Dependable Smart Embedded and Cyber Physical Systems and Systems of Systems SASSUR 2019 8th International Workshop on Next Generation of System Assurance Approaches for Safety Critical Systems STRIVE 2019 Second International Workshop on Safety securiTy and pRivacy In automotiVe systEms WAISE 2019 Second International Workshop on Artificial Intelligence Safety Engineering   **American Machinist** ,1917   Principles of Modeling and Simulation John A. Sokolowski,Catherine M. Banks,2011-09-20 Explores wide ranging applications of modeling and simulation techniques that allow readers to conduct research and ask What if Principles of Modeling and Simulation A Multidisciplinary Approach is the first book to provide an introduction to modeling and simulation techniques across diverse areas of study Numerous researchers from the fields of social science engineering computer science and business have collaborated on this work to explore the multifaceted uses of computational modeling while illustrating their applications in common spreadsheets The book is organized into three succinct parts Principles of Modeling and Simulation provides a brief history of modeling and simulation outlines its many functions and explores the advantages and disadvantages of using

models in problem solving Two major reasons to employ modeling and simulation are illustrated through the study of a specific problem in conjunction with the use of related applications thus gaining insight into complex concepts Theoretical Underpinnings examines various modeling techniques and introduces readers to two significant simulation concepts discrete event simulation and simulation of continuous systems This section details the two primary methods in which humans interface with simulations and it also distinguishes the meaning importance and significance of verification and validation Practical Domains delves into specific topics related to transportation business medicine social science and enterprise decision support The challenges of modeling and simulation are discussed along with advanced applied principles of modeling and simulation such as representation techniques integration into the application infrastructure and emerging technologies With its accessible style and wealth of real world examples Principles of Modeling and Simulation A Multidisciplinary Approach is a valuable book for modeling and simulation courses at the upper undergraduate and graduate levels It is also an indispensable reference for researchers and practitioners working in statistics mathematics engineering computer science economics and the social sciences who would like to further develop their understanding and knowledge of the field

Reviewing **Sample Chapter 6 Manning Publications Co**: Unlocking the Spellbinding Force of Linguistics

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