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Silvio José Gumiere, Hossein Bonakdari

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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 React Quickly Azat Mardan, 2017-08-20 Summary React Ouickly 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 is 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 is 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 is cheatsheet Appendix D MongoDB and Mongoose cheatsheet Appendix E ES6 for success 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 guestions 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

Handbook on Intelligent Techniques in the Educational Process Mirjana Ivanović, Aleksandra Klašnja-Milićević, Lakhmi C. Jain, 2022-06-15 Education has a substantial impact and influences on almost all sectors in modern society Different computer supported educational systems have been developing for many decades to support and make easier teaching and learning processes on all levels of education Influences of rapid development of Information Communication Technologies and other related disciplines on design and implementation of intelligent sophisticated educational systems are evident Nowadays intensive development and wide applications of Artificial Intelligent techniques significantly affect the development of intelligent tutoring systems smart learning environments that incorporate virtual and augmented reality and robots Artificial Intelligence has the potential to

address some of the biggest challenges in education today but also in the future in order to establish innovative teaching and learning practices facilitated by powerful educational datamining and learning analytics. This book presents a collection of 17 chapters that bring interesting aspects of 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 City Seng W. Loke, Andry Rakotonirainy, 2021-09-01 The book outlines the concept of the Automated City in the context of smart city research and development While there have been many other perspectives on the smart city such as the participatory city and the data centric city this book focuses on automation for the smart city based on current and emerging technologies such as the Internet of Things Artificial Intelligence and Robotics The book attempts to provide a balanced view outlining the promises and potential of the Automated City as well as the perils and challenges of widespread automation in the city The book discusses at some depth automated vehicles urban robots and urban drones as emerging technologies that will automate many aspects of city life and operation drawing on current work and research literature The book also considers broader perspectives of the future city in the context of automation in the smart city including aspirational visions of cities transportation new business models and socio technological challenges from urban edge computing ethics of the Automated City and smart devices to large scale cooperating autonomous systems in the city Analytics for Large Scale Systems Bedir Tekinerdogan, Önder Babur, Loek Cleophas, Mark van den Brand, Mehmet Aksit, 2019-09-14 Model Management and Analytics for Large Scale Systems covers the use of models and related artefacts such as metamodels and model transformations as central elements for tackling the complexity of building systems and managing data With their increased use across diverse settings the complexity size multiplicity and variety of those artefacts has increased Originally developed for software engineering these approaches can now be used to simplify the analytics of large scale models and automate complex data analysis processes Those in the field of data science will gain novel insights on the topic of model analytics that go beyond both model based development and data analytics This book is aimed at both researchers and practitioners who are interested in model based development and the analytics of large scale models ranging from big data management and analytics to enterprise domains The book could also be used in graduate courses on model development data analytics and data management Identifies key problems and offers solution approaches and tools that have been developed or are necessary for model management and analytics Explores basic theory and background current research topics related challenges and the research directions for model management and analytics Provides a complete overview of model management and analytics frameworks the different types of analytics descriptive diagnostics predictive and prescriptive the required modelling and method steps and important future directions **Selected Readings in Cybersecurity** Young B. Choi, 2018-11-16 This collection of papers highlights the current state of the art of cybersecurity

It is divided into five major sections humans and information security systems design and development security systems management and testing applications of information security technologies and outstanding cybersecurity technology development trends This book will mainly appeal to practitioners in the cybersecurity industry and college faculty and students in the disciplines of cybersecurity information systems information technology and computer science Programming Language Bjarne Stroustrup, 2013-07-10 The new C 11 standard allows programmers to express ideas more clearly simply and directly and to write faster more efficient code Bjarne Stroustrup the designer and original implementer of C has reorganized extended and completely rewritten his definitive reference and tutorial for programmers who want to use C most effectively The C Programming Language Fourth Edition delivers meticulous richly explained and integrated coverage of the entire language its facilities abstraction mechanisms standard libraries and key design techniques Throughout Stroustrup presents concise pure C 11 examples which have been carefully crafted to clarify both usage and program design To promote deeper understanding the author provides extensive cross references both within the book and to the ISO standard New C 11 coverage includes Support for concurrency Regular expressions resource management pointers random numbers and improved containers General and uniform initialization simplified for statements move semantics and Unicode support Lambdas general constant expressions control over class defaults variadic templates template aliases and user defined literals Compatibility issues Topics addressed in this comprehensive book include Basic facilities type object scope storage computation fundamentals and more Modularity as supported by namespaces source files and exception handling C abstraction including classes class hierarchies and templates in support of a synthesis of traditional programming object oriented programming and generic programming Standard Library containers algorithms iterators utilities strings stream I O locales numerics and more The C basic memory model in depth This fourth edition makes C 11 thoroughly accessible to programmers moving from C 98 or other languages while introducing insights and techniques that even cutting edge C 11 programmers will find indispensable This book features an enhanced layflat binding which allows the book to stay open more easily when placed on a flat surface This special binding method noticeable by a small space inside Software Testing Automation Saeed Parsa, 2023-03-24 This book is about the design the spine also increases durability and development of tools for software testing It intends to get the reader involved in software testing rather than simply memorizing the concepts The source codes are downloadable from the book website The book has three parts software testability fault localization and test data generation Part I describes unit and acceptance tests and proposes a new method called testability driven development TsDD in support of TDD and BDD TsDD uses a machine learning model to measure testability before and after refactoring The reader will learn how to develop the testability prediction model and write software tools for automatic refactoring Part II focuses on developing tools for automatic fault localization This part shows the reader how to use a compiler generator to instrument source code create control flow graphs identify prime paths and

slice the source code On top of these tools a software tool 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 AI as a Service Peter Elger, Eoin Shanaghy, 2020-10-06 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 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 Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the technology Cloud based AI services can automate a variety of labor intensive business tasks in areas such as customer service data analysis and financial reporting The secret is taking advantage of pre built tools like Amazon Rekognition for image analysis or AWS Comprehend for natural language processing That way there s no need to build expensive custom software Artificial Intelligence AI a machine's ability to learn and make predictions based on patterns it identifies is already being leveraged by businesses around the world in areas like targeted product recommendations financial forecasting and resource planning customer service chatbots healthcare diagnostics data security and more With the exciting combination of serverless computing and AI software developers now have enormous power to improve their businesses existing systems and rapidly deploy new AI enabled platforms And to get on this fast moving train you don't have to invest loads of time and effort in becoming a data scientist or AI expert thanks to cloud platforms and the readily available off the shelf cloud based AI services About the book AI as a Service is a fast paced guide to harnessing the power of cloud based solutions You ll learn to build real world apps such as chatbots and text to speech services by stitching together cloud components Work your way from small projects to large data intensive applications What's inside Apply cloud AI services to existing platforms Design and build scalable data pipelines Debug and troubleshoot AI services Start fast with serverless templates About the reader For software developers familiar with cloud basics About the author Peter Elger and E in Shanaghy are founders and CEO CTO of fourTheorem a software solutions company providing expertise on architecture DevOps and machine learning Table of Contents PART 1 FIRST STEPS 1 A tale of two technologies 2 Building a serverless

image recognition system part 1 3 Building a serverless image recognition system part 2 PART 2 TOOLS OF THE TRADE 4 Building and securing a web application the serverless way 5 Adding AI interfaces to a web application 6 How to be effective with AI as a Service 7 Applying AI to existing platforms PART 3 BRINGING IT ALL TOGETHER 8 Gathering data at scale for real world AI 9 Extracting value from large data sets with AI 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 quidance 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

Computational Methods for Time-Series Analyses in Earth Sciences Silvio José Gumiere, Hossein Bonakdari, 2025-06-27 Computational Methods for Time Series Analyses in Earth Sciences bridges the gap between theoretical knowledge and practical application offering a deep dive into the utilization of R programming for managing analyzing and forecasting time series data within the realm of Earth sciences It systematically unfolds the layers of data manipulation graphical representation and sampling to prepare the reader for complex analyses and predictive modeling from the basics of signal processing to the nuances of machine learning It presents cutting edge techniques such as neural networks kernel based methods and evolutionary algorithms specifically tailored to tackle challenges and provides practical case studies to aid readers with utilizing the techniques covered Computational Methods for Time Series Analyses in Earth Sciences is a valuable resource for scientists researchers and students delving into the intricacies of Earth's environmental patterns and cycles through the lens of computational analysis and guides readers through various computational approaches to

deciphering spatial and temporal data Focuses on the use of R for time series analysis and the application of these methods directly to Earth and environmental datasets Integrates Machine Learning techniques enabling readers to explore advanced computational methods for forecasting and modeling Includes case studies with real world applications providing readers with examples on how to translate computational skills into tangible outcomes Software Architectures Leonor Barroca, Jon Hall, Patrick Hall, 2011-06-27 This book provides a unique overview of different approaches to developing software that is flexible adaptable and easy to maintain and reuse It covers the most recent advances in software architecture research In addition it provides the reader with scalable solutions for engineering and reengineering business processes including architectural components for business applications framework design for Internet distributed business applications and architectural standards for enterprise systems **Pro JSP 2** Simon Brown, Sam Dalton, Sing Li, Daniel Jepp, Matt Raible, David Johnson, 2006-11-05 This is the first comprehensive guide to cover JSP 2 and 2 1 It supplies you with the tools and techniques to develop web applications with ISP and Java servlets You ll learn to choose and implement the best persistence option for your web applications and how to secure web sites against malicious attack and accidental misuse You will improve the performance and scalability of JSP pages as well as architect reliable stable applications. The authors describe all of the rich JSP 2 features and explain JSF integration with JSP Completing the thorough package this book examines how integration with open source projects like Ant Struts XDoclet JUnit and Cactus can make web development Big Data Analytics Kim H. Pries, Robert Dunnigan, 2015-02-05 With this book managers and decision makers even easier 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 **Cloud, Grid and High Performance Computing: Emerging Applications** Udoh, Emmanuel, 2011-06-30 This book offers new and established perspectives on architectures services and the resulting impact of emerging computing technologies including investigation of practical and theoretical issues in the related fields of grid cloud and high performance computing Provided by publisher Data Science Fundamentals and Practical Approaches Dr. Gypsy Nandi, Dr. Rupam Kumar Sharma, 2020-06-02 Learn how to process and analysis data using Python KEY FEATURES The book has theories explained elaborately along with Python code and corresponding output to support the theoretical explanations The Python codes are provided with step by step comments to explain each instruction of the code The book is not just dealing with the background mathematics alone or only the programs but beautifully correlates the background mathematics to the theory and then finally translating it into the programs A rich set of chapter end exercises are provided consisting of both short answer questions and long answer questions DESCRIPTION This book introduces the fundamental concepts of Data Science which has proved to be a major game changer in business solving problems Topics covered in the book include fundamentals of Data Science data

preprocessing data plotting and visualization statistical data analysis machine learning for data analysis time series analysis deep learning for Data Science social media analytics business analytics and Big Data analytics The content of the book describes the fundamentals of each of the Data Science related topics together with illustrative examples as to how various data analysis techniques can be implemented using different tools and libraries of Python programming language Each chapter contains numerous examples and illustrative output to explain the important basic concepts An appropriate number of questions is presented at the end of each chapter for self assessing the conceptual understanding The references presented at the end of every chapter will help the readers to explore more on a given topic WHAT WILL YOU LEARN Perform processing on data for making it ready for visual plot and understand the pattern in data over time Understand what machine learning is and how learning can be incorporated into a program Know how tools can be used to perform analysis on big data using python and other standard tools Perform social media analytics business analytics and data analytics on any data of a company or organization WHO THIS BOOK IS FOR The book is for readers with basic programming and mathematical skills The book is for any engineering graduates that wish to apply data science in their projects or wish to build a career in this direction The book can be read by anyone who has an interest in data analysis and would like to explore more out of interest or to apply it to certain real life problems TABLE OF CONTENTS 1 Fundamentals of Data Science1 2 Data Preprocessing 3 Data Plotting and Visualization 4 Statistical Data Analysis 5 Machine Learning for Data Science 6 Time Series Analysis 7 Deep Learning for Data Science 8 Social Media Analytics 9 Business Analytics 10 Big Data Analytics

How Computers Create Social Structures Silvio Carta,2024-09-17 This book introduces the idea of accidental collectives the grouping of people that occurs as a by product of the automated work of computers Software has a growing influence in our lives automating and optimising mundane time consuming and repetitive tasks In doing this groups of people are automatically created as the result of classification and data analysis Once grouped by the invisible agency of software people interact and establish new relationships generating new collectives and communities With the support of case studies and real life examples this work explores the accidental nature of the generation of new social groups and questions the role of software in social interactions

African American Films Through 1959 Larry Richards,2005-06-10 All films with a predominantly or entirely African American cast or that were about African Americans are detailed here Each entry includes cast and credits year of release studio distributor type of film feature short or documentary and other production details In most cases a brief synopsis of the film or contemporary reviews of it follow In the appendices film credits for over 1 850 actors and actresses are provided along with a listing of film companies

Beginning Groovy, Grails and Griffon Christopher M Judd, Joseph Faisal Nusairat, Jim Shingler, Vishal Layka, 2013-03-12 Web frameworks are playing a major role in the creation of today s most compelling web applications because they automate many of the tedious tasks allowing developers to instead focus on providing users with creative and powerful features Java developers have been particularly fortunate in this area

having been able to take advantage of Grails an open source framework that supercharges productivity when building Java driven web sites Grails is based on Groovy which is a very popular and growing dynamic scripting language for Java developers and was inspired by Python Ruby and Smalltalk Beginning Groovy Grails and Griffon is the first introductory book on the Groovy language and its primary web framework Grails Griffon is also covered While Grails is the Web framework for building Groovy Web applications Griffon is the deskop framework for building desktop Groovy applications Could Groovy be the new Java It's light fast and free open source This book gets you started with Groovy Grails and Griffon and culminates in the example and possible application of some real world projects You follow along with the development of each project implementing and running each application while learning new features along the way

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