Big Data Fundamentals
Concepts, Drivers & Techniques

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Big Data Fundamentals Computer Science

Daniel F McAuley

Big Data Fundamentals Computer Science:

Big Data Fundamentals Thomas Erl,Wajid Khattak,Paul Buhler,2015-12-29 This text should be required reading for everyone in contemporary business Peter Woodhull CEO Modus21 The one book that clearly describes and links Big Data concepts to business utility Dr Christopher Starr PhD Simply this is the best Big Data book on the market Sam Rostam Cascadian IT Group one of the most contemporary approaches I ve seen to Big Data fundamentals Joshua M Davis PhD The Definitive Plain English Guide to Big Data for Business and Technology Professionals Big Data Fundamentals provides a pragmatic no nonsense introduction to Big Data Best selling IT author Thomas Erl and his team clearly explain key Big Data concepts theory and terminology as well as fundamental technologies and techniques All coverage is supported with case study examples and numerous simple diagrams The authors begin by explaining how Big Data can propel an organization forward by solving a spectrum of previously intractable business problems Next they demystify key analysis techniques and technologies and show how a Big Data solution environment can be built and integrated to offer competitive advantages Discovering Big Data s fundamental concepts and what makes it different from previous forms of data analysis and data science Understanding the business motivations and drivers behind Big Data adoption from operational improvements through innovation Planning strategic business driven Big Data initiatives Addressing considerations such as data management governance and security Recognizing the 5 V characteristics of datasets in Big Data environments volume velocity variety veracity and value Clarifying Big Data s relationships with OLTP OLAP ETL data warehouses and data marts Working with Big Data in structured unstructured semi structured and metadata formats Increasing value by integrating Big Data resources with corporate performance monitoring Understanding how Big Data leverages distributed and parallel processing Using NoSQL and other technologies to meet Big Data s distinct data processing requirements Leveraging statistical approaches of quantitative and qualitative analysis Applying computational analysis methods including machine learning **Fundamentals of Data Science** Sanjeev J. Wagh,Manisha S. Bhende,Anuradha D. Thakare,2021-09-26 Fundamentals of Data Science is designed for students academicians and practitioners with a complete walkthrough right from the foundational groundwork required to outlining all the concepts techniques and tools required to understand Data Science Data Science is an umbrella term for the non traditional techniques and technologies that are required to collect aggregate process and gain insights from massive datasets This book offers all the processes methodologies various steps like data acquisition pre process mining prediction and visualization tools for extracting insights from vast amounts of data by the use of various scientific methods algorithms and processes Readers will learn the steps necessary to create the application with SQl NoSQL Python R Matlab Octave and Tablue This book provides a stepwise approach to building solutions to data science applications right from understanding the fundamentals performing data analytics to writing source code All the concepts are discussed in simple English to help the community to become Data Scientist without much pre

requisite knowledge Features Simple strategies for developing statistical models that analyze data and detect patterns trends and relationships in data sets Complete roadmap to Data Science approach with dedicatedsections which includes Fundamentals Methodology and Tools Focussed approach for learning and practice various Data Science Toolswith Sample code and examples for practice Information is presented in an accessible way for students researchers and academicians and professionals *Engineering Mathematics and Artificial Intelligence* Herb Kunze,Davide La Torre,Adam Riccoboni,Manuel Ruiz Galán,2023-07-26 The fields of Artificial Intelligence AI and Machine Learning ML have grown dramatically in recent years with an increasingly impressive spectrum of successful applications This book represents a key reference for anybody interested in the intersection between mathematics and AI ML and provides an overview of the current research streams Engineering Mathematics and Artificial Intelligence Foundations Methods and Applications discusses the theory behind ML and shows how mathematics can be used in AI The book illustrates how to improve existing algorithms by using advanced mathematics and offers cutting edge AI technologies The book goes on to discuss how ML can support mathematical modeling and how to simulate data by using artificial neural networks Future integration between ML and complex mathematical techniques is also highlighted within the book This book is written for researchers practitioners engineers and AI consultants **Examining Cloud Computing Technologies Through the Internet of Things** Tomar, Pradeep,Kaur, Gurjit,2017-11-30 The progressive combination of cloud computing and Internet of Things IoT will enable new monitoring services create powerful processing of sensory data streams and provide a new method for intelligent perception and connection Examining Cloud Computing Technologies Through the Internet of Things is a pivotal reference source for scholarly research on the latest and innovative facets of cloud based Internet of Things systems including technical evaluations and comparisons of existing concepts Featuring coverage on a broad range of topics such as fog computing network programming and data security this book is geared towards advanced level students researchers and professionals interested in exploring and implementing the IoT and related technologies *Big Data for beginners* Cybellium,2023-09-26 Unlock the Power of Big Data Analytics in the Modern World Are you ready to dive into the fascinating world of big data analytics Big Data for Beginners is your essential guide to understanding and harnessing the potential of big data in the modern era Whether you re new to the concept or looking to expand your knowledge this comprehensive book equips you with the foundational knowledge and tools to navigate the complexities of big data and make informed decisions Key Features 1 Introduction to Big Data Dive deep into the fundamental concepts of big data from its definition to its significance in today s data driven landscape Build a strong foundation that empowers you to navigate the vast world of big data 2 Understanding Data Sources Navigate the diverse sources of big data including structured semi structured and unstructured data Learn how to gather process and manage data from various sources to extract valuable insights 3 Big Data Technologies Discover the technologies that power big data analytics Explore tools like Hadoop Spark and NoSQL databases

understanding their role in processing and analyzing massive datasets 4 Data Storage and Processing Master the art of storing and processing big data effectively Learn about distributed file systems data warehouses and batch and real time processing to ensure scalability and efficiency 5 Data Analysis and Visualization Uncover strategies for analyzing and visualizing big data Explore techniques for data exploration pattern recognition and creating compelling visual representations that convey insights effectively 6 Machine Learning and Predictive Analytics Delve into the world of machine learning and predictive analytics using big data Learn how to build models that make accurate predictions and informed decisions based on massive datasets 7 Big Data Security and Privacy Explore the challenges of securing and preserving privacy in the realm of big data Learn how to implement encryption access controls and anonymization techniques to protect sensitive information 8 Real World Applications Discover the myriad applications of big data across industries From healthcare to finance retail to marketing explore how big data is transforming business operations and decision making 9 Challenges and Future Trends Gain insights into the challenges posed by big data such as data quality and scalability issues Explore the future trends and advancements that are shaping the evolution of big data analytics 10 Ethical Considerations Delve into the ethical considerations surrounding big data Learn about responsible data usage addressing bias and maintaining transparency in the collection and analysis of data Who This Book Is For Big Data for Beginners is an indispensable resource for individuals students professionals and enthusiasts who are eager to grasp the fundamentals of big data analytics Whether you re a beginner curious about the world of data or an experienced professional seeking to enhance your skills this book will guide you through the intricacies and empower you to harness the potential of big data

Telematics and Computing Miguel Félix Mata-Rivera,Roberto Zagal-Flores,Cristian Barria-Huidobro,2025-11-01 This book constitutes the proceedings of the 14th International Conference on Telematics and Computing WITCOM 2025 held in Huatulco Mexico during November 3 7 2025 The 44 full papers presented in this volume were carefully reviewed and selected from 110 submissions They are grouped into the following topics Fields of knowledge Including environmental monitoring Information systems IoT Education Artificial intelligence techniques Cybersecurity Data science **Smart and Innovative Trends in Next Generation Computing Technologies** Pushpak Bhattacharyya,Hanumat G. Sastry,Venkatadri Marriboyina,Rashmi Sharma,2018-06-08 The two volume set CCIS 827 and 828 constitutes the thoroughly refereed proceedings of the Third International Conference on Next Generation Computing Technologies NGCT 2017 held in Dehradun India in October 2017 The 135 full papers presented were carefully reviewed and selected from 948 submissions There were organized in topical sections named Smart and Innovative Trends in Communication Protocols and Standards Smart and Innovative Trends in Computational Intelligence and Data Science Smart and Innovative Trends in Image Processing and Machine Vision Smart Innovative Trends in Natural Language Processing for Indian Languages Smart Innovative Trends in Security and Privacy **Inventive Communication and Computational Technologies** G.

Ranganathan,Joy Chen,Álvaro Rocha,2020-09-24 This book gathers selected papers presented at the 4th International Conference on Inventive Communication and Computational Technologies ICICCT 2020 held on 28 29 May 2020 at Gnanamani College of Technology Tamil Nadu India The respective contributions highlight recent research efforts and advances in a new paradigm called ISMAC IoT in Social Mobile Analytics and Cloud contexts The topics covered include the Internet of Things Social Networks Mobile Communications Big Data Analytics Bio inspired Computing and Cloud Computing Given its scope the book is chiefly intended for academics and practitioners working to resolve practical issues in this area

Exploratory Data Analysis Leandro Nunes de Castro,2025-11-07 This book is a comprehensive guide to exploratory data analysis EDA providing readers with the tools techniques and knowledge needed to conduct effective and thorough data exploration Throughout the seven main chapters this book details various aspects of EDA from data description and preprocessing to visualization storytelling and dashboard design We will explore real world datasets uncovering hidden patterns and gaining insights along the way This book is filled with illustrations using practical examples Python codes and different types of exercises designed to reinforce the concepts and processes discussed Whether you are a student just starting out in the field of data science a senior professional looking to improve your skills or a curious individual interested in the power of data this book is for you   Terahertz Biomedical and Healthcare Technologies Amit Banerjee,Basabi Chakraborty,Hiroshi Inokawa,Jitendra Nath Roy,2020-08-11 Terahertz Biomedical and Healthcare Technologies Materials to Devices reviews emerging advances in terahertz biomedical and healthcare technologies including advances in fundamental materials science research device design and fabrication applications and challenges and opportunities for improved performance In addition the improvement of materials optical elements and measuring techniques are also explored Other sections cover the design and development of wide bandgap semiconductors for terahertz device applications including their physics device modeling characterization and fabrication concepts Finally the book touches on potential defense medical imaging internet of things and the machine learning applications of terahertz technologies Reviews the latest advances in the fundamental and applied research of terahertz technologies covering key topics in materials science biomedical engineering and healthcare informatics Includes applications of terahertz technologies in medical imaging diagnosis and treatment Provides readers with an understanding of the machine learning pattern recognition and data analytics research utilized to enhance the effectiveness of terahertz technologies   *Computational Methods in Applied Sciences* Agnieszka Szczotok,Aneta Gądek-Moszczak,Jacek Pietraszek,Norbert Radek,Renata Dwornicka,2015-01-12 Selected peer reviewed papers from the International Conference on Computational Methods in Applied Sciences CMAS 2014 December 17 18 2014 Krak w Poland   **Essentials of Nursing Informatics, 7th Edition** Virginia K. Saba,Kathleen A. McCormick,2021-03-22 The single best resource for learning how technology can make the nursing experience as rewarding and successful as possible A Doody s Core Title for 2024 computer systems and information theory electronic medical records continuum of

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for organizations to gather store and process data Use of data science is driven by the rise of big data and social media the development of high performance computing and the emergence of such powerful methods for data analysis and modeling as deep learning Data science encompasses a set of principles problem definitions algorithms and processes for extracting non obvious and useful patterns from large datasets It is closely related to the fields of data mining and machine learning but broader in scope This book offers a brief history of the field introduces fundamental data concepts and describes the stages in a data science project It considers data infrastructure and the challenges posed by integrating data from multiple sources introduces the basics of machine learning and discusses how to link machine learning expertise with real world problems The book also reviews ethical and legal issues developments in data regulation and computational approaches to preserving privacy Finally it considers the future impact of data science and offers principles for success in data science projects

General Catalog -- University of California, Santa Cruz University of California, Santa Cruz,2008 *Computing Curricula 2001* ACM/IEEE-CS Joint Curriculum Task Force,2002 This volume examines computing curricula for computer science **Computer Fundamentals with BASIC Programming** Steven L. Mandell,1985 **NII Today** ,2015

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