Big Data Fundamentals
Concepts, Drivers & Techniques

Co-authored and Edited by Best-Selling Author Thomas Erl
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Yijin Wang

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   **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 **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 **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 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

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 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 **Contemporary Issues in Communication, Cloud and Big Data Analytics** Hiren Kumar Deva Sarma,Valentina Emilia Balas,Bhaskar Bhuyan,Nitul Dutta,2021-11-30 This book presents the outcomes of the First International Conference on Communication Cloud and Big Data CCB held on December 18 19 2020 at Sikkim Manipal Institute of Technology Majitar Sikkim India This book contains research papers and articles in the latest topics related to the fields like communication networks cloud computing big data analytics and on various computing techniques Research papers addressing security issues in above mentioned areas are also included in the book The research papers and articles discuss latest issues in the above mentioned topics The book is very much helpful and useful for the researchers engineers practitioners research students and interested readers **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   Data Analytics Jevon Morris,2022-02-25 The book series An Introduction to Data Science and Enterprise Software Engineering aims to provide explanations about some data science and software engineering concepts The primary goal is to give at best an introduction leading to more advanced concepts and establish a foundation toward building a successful enterprise The secondary goal is to offer improvement for existing enterprise software architectures The book series An Introduction to Data Science and Enterprise Software Engineering aims to provide explanations about some data science and software engineering concepts The primary goal is to give at best an introduction leading to more advanced concepts and establish a foundation toward building a successful enterprise The secondary goal is to offer improvement for existing enterprise software architectures This book delivers an understanding of Big Data and what it means to use a foundation of Big Data by illuminating some of the characteristics and value that such an asset adds to any successful business enterprise The understanding of the subject matter thereof is pursued through a case study in which the reader assumes a role in the fictitious enterprise Serif Industries which has officially launched a Big Data initiative to gain a competitive advantage   *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   **Python for Programmers** Paul Deitel,Harvey Deitel,2019-03-15 The professional programmer s Deitel guide to Python with introductory artificial intelligence case studies Written for programmers with a background in another high level language Python for Programmers uses hands on instruction to teach today s most compelling leading edge computing technologies and programming in Python one of the world s most popular and fastest growing languages Please read the Table of Contents diagram inside the front cover and the Preface for more details In the context of 500 real world examples ranging from individual snippets to 40 large scripts and full implementation case studies you ll use the interactive IPython interpreter with code in Jupyter Notebooks to quickly master the latest Python coding idioms After covering Python Chapters 1 5 and a few key parts of Chapters 6 7 you ll be able to handle significant portions of the hands on introductory AI case studies in Chapters 11 16 which are loaded with cool powerful contemporary examples These include natural language processing data mining Twitter for sentiment analysis cognitive computing with IBM WatsonTM supervised machine learning with classification and regression unsupervised machine learning with clustering computer vision through deep learning and

convolutional neural networks deep learning with recurrent neural networks big data with Hadoop SparkTM and NoSQL databases the Internet of Things and more You ll also work directly or indirectly with cloud based services including Twitter Google TranslateTM IBM Watson Microsoft Azure OpenMapQuest PubNub and more Features 500 hands on real world live code examples from snippets to case studies IPython code in Jupyter Notebooks Library focused Uses Python Standard Library and data science libraries to accomplish significant tasks with minimal code Rich Python coverage Control statements functions strings files JSON serialization CSV exceptions Procedural functional style and object oriented programming Collections Lists tuples dictionaries sets NumPy arrays pandas Series DataFrames Static dynamic and interactive visualizations Data experiences with real world datasets and data sources Intro to Data Science sections AI basic stats simulation animation random variables data wrangling regression AI big data and cloud data science case studies NLP data mining Twitter IBM WatsonTM machine learning deep learning computer vision Hadoop SparkTM NoSQL IoT Open source libraries NumPy pandas Matplotlib Seaborn Folium SciPy NLTK TextBlob spaCy Textatistic Tweepy scikit learn Keras and more Accompanying code examples are available here http ptgmedia pearsoncmg com imprint_downloads informit bookreg 9780135224335 9780135224335_examples zip Register your product for convenient access to downloads updates and or corrections as they become available See inside book for more information   *Everybody Lies* Seth Stephens-Davidowitz,2017-05-09 On an average day humans will amass eight trillion gigabytes of data searching the internet Seth Stephen Davidowitz a former Google data scientist shows your students how that data can be mined for valuable insight from the hilarious to the horrifying In the spirit of Freakonomics Everybody Lies challenges our preconceived notions on how people think and explores how big data can be used in new and innovative ways Freshman Common Read Hamline University   **Computing Curricula 2001** ACM/IEEE-CS Joint Curriculum Task Force,2002 This volume examines computing curricula for computer science   **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   **Machine Learning and Data Science** Prateek Agrawal,Charu Gupta,Anand Sharma,Vishu Madaan,Nisheeth Joshi,2022-08-09 MACHINE LEARNING AND DATA SCIENCE Written and edited by a team of experts in the field this collection of papers reflects the most up to date and comprehensive current state of machine learning and data science for industry government and academia Machine learning ML and data science DS are very active topics with an extensive scope both in terms of theory and applications They have been established as an important emergent scientific field and paradigm driving research evolution in such disciplines as statistics computing science and intelligence science and practical transformation in such domains as science engineering the public sector business social science and lifestyle Simultaneously their applications provide important challenges that can often be addressed only with innovative machine learning and data science algorithms These algorithms encompass the larger areas of artificial intelligence data analytics machine learning pattern recognition natural language understanding and big data manipulation They also tackle related new scientific challenges ranging from data capture creation storage retrieval sharing analysis optimization and visualization to integrative analysis across heterogeneous and interdependent complex resources for better decision making collaboration and ultimately value creation   **Problems and Prospects of Fundamental Research in Multi-disciplinary Fields: Computer Science** ,1972   *Computing in the Humanities and Social Sciences: Fundamentals* Robert Sher Tannenbaum,1988   *Harnessing the Fourth Industrial Revolution* ,2019

Big Data Fundamentals Computer Science: Bestsellers in 2023 The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous captivating novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the fascinating narratives that have enthralled audiences this year. The Must-Read : Colleen Hoovers "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Big Data Fundamentals Computer Science : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Big Data Fundamentals Computer Science : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and gripping novel that will keep you wondering until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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web 1 packer brisket 12 to 14 pounds 3 cups jerk seasoning homemade or your favorite commercial brand 5 pimento leaves or bay leaves 2 tablespoons allspice berries preferably jamaican buttered toasted brioche rolls or

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web sep 6 2017 this rub will add tons of flavor to beef or pork ribs chops roasts chicken vegetables and meat substitutes while this is meant to be a spicy rub you can adjust the cayenne to suit your tastes if you re new to jerk seasoning i recommend starting with chicken breasts or thighs 5 from 1 vote

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web i have to admit i make this marinade in batches it is fresh and fragrant at the same time every time grill i seem to acquire new friends jerk is originated in jamaica but most other caribbean islands have their own marinades using the spices and herbs in the quantities preferable to their specific taste

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web dec 19 2021 ingredients 1 medium onion finely chopped 1 2 cup scallions finely chopped 1 hot pepper finely chopped 3 tablespoons soy sauce 1 tablespoon oil 1 tablespoon cider vinegar or white vinegar 2 teaspoons fresh thyme leaves 2 teaspoons granulated sugar 1 teaspoon salt kosher salt or sea salt is

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web step 1 make the jerk seasoning place the chiles scallions garlic ginger cilantro thyme sugar salt allspice cinnamon pepper and salt in food processor and grind to a coarse paste work in the oil rum and soy sauce to obtain a thick but spreadable paste

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web recipe tips place the food in a glass baking dish and spread the jerk seasoning over it turning to ensure an even coating marinate large pieces of meat overnight medium size pieces for 4 to 6 hours and small pieces for 1 to 2 hours covered in the refrigerator barbecue or indirect grill the meat using moderate heat and plenty of wood smoke

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web jan 14 2011   1 3 cup soy sauce 2 tablespoon vegetable oil 1 4 cup vinegar 1 onion 1 2 cup orange juice 2 cloves garlic 1 teaspoon grated ginger notes if you re using dried thyme use about 1 2 table spoon this makes about 3 cups of marinade and it can be stored in the fridge for about 1 month

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web in the process it s lost a lot of its fire spice and salt here s how they make it in the birthplace of jerk a town called boston beach on the north coast of jamaica count yourself lucky to have a blender in boston beach they grind the seasonings in a hand cranked spice mill

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web oct 16 2020   instructions mix all ingredients in a blender until you have a smooth texture cover the meat thoroughly and refrigerate for at least 12 hours no more than 4 for fish save the leftover over marinade for basting the meat while finishing off with a char

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web simply rub a small amount 1oz jerk seasoning 2 2lbs 1kg into your meat or fish for best results marinate overnight to absorb the spicy flavor and then cook until done on your barbeque or in your oven we are so proud that walkerswood jerk seasoning has been included in the list of 2015 men s health 125 best from walkerswood com

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web for the brine 2 cups water 4 tablespoons coarse salt kosher or sea 4 tablespoons granulated sugar 6 garlic cloves peeled and halved lengthwise 1 small orange quartered 1 lemon quartered 1 small onion peeled and quartered 2

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