

Analytics In Practice By Soumendra Mohanty

This book gathers state-of-the-art research in computational engineering and bioengineering to facilitate knowledge exchange between various scientific communities. Computational engineering (CE) is a relatively new discipline that addresses the development and application of computational models and simulations often coupled with high-performance computing to solve complex physical problems arising in engineering analysis and design in the context of natural phenomena. Bioengineering (BE) is an important aspect of computational biology, which aims to develop and use efficient algorithms, data structures, and visualization and communication tools to model biological systems. Today, engineering approaches are essential for biologists, enabling them to analyse complex physiological processes, as well as for the pharmaceutical industry to support drug discovery and development programmes.

Sustainability has been increasingly embraced as an overarching policy goal, and communities have been called to be active participants on the path towards attaining a balance between fundamental human needs and ecological resiliency. Community-based organizations (CBOs) can benefit from using GIS in building community assets and developing well-conceived sustainability initiatives, but GIS has not yet been widely used for those purposes in CBOs. This book illustrates how geographic information (such as maps) can be useful in community development drawing from service-learning GIS projects, and argue that economic benefits of sustainable thinking lie of help in building sustainable community. It also discusses the application of vehicle routing problems for sustainable waste collection, spatio-temporal visualization and analysis techniques in GIS, GIS applications in modern crop protection, role of geographic information system for water quality evaluation; and the use of remote sensing and GIS for groundwater potential mapping in crystalline basement rocks. This book describes how chief information officers (CIOs) can embrace and drive the digital transformation by providing innovative leadership that sets old skills in a novel way. The book explores ways in which new actors and factors will play a key role in this process and how new relations can be created among things, data, and people. In addition, the design of digital organizations and the implementation of digital technologies are carefully examined and it is explained how digital workplaces can be designed, organized, and used. A set of methods is provided for linking new digital tools in order to meet the goals and challenges of building a digital enterprise. The digital economy is disrupting the way of interaction within value chains, creating fresh spaces for competition and novel ecosystems. With the advent of social media networking, mobility, big data and cloud computing, 4.0 manufacturing, etc., we are witnessing the birth of new digital organizations. However, sharing of leadership of this change among different actors can create disorder and inefficiency. Against this background, the future role of the CIO will be crucial.

Modern textbook presentations of production economics typically treat producers as successful optimizers. Conventional econometric practice has generally followed this paradigm, and least squares based regression techniques have been used to estimate production, cost, profit and other functions. In such a framework deviations from maximum output, from minimum cost and cost minimizing input demands, and from maximum profit and profit maximizing output supplies and input demands, are attributed exclusively to random statistical noise. However casual empiricism and the business press both make persuasive cases for the argument that, although producers may indeed attempt to optimize, they do not always succeed. This book develops econometric techniques for the estimation of production, cost, and profit frontiers, and for the estimation of the technical and economic efficiency with which producers approach these frontiers. Since these frontiers overlap rather than intersect the data, and since the authors continue to maintain the traditional econometric belief in the presence of external forces contributing to random statistical noise, the work is titled Stochastic Frontier Analysis.

Proceedings of ICICC 2019, Volume 1

How to Compete in the Age of Artificial Intelligence

200 Puzzling Physics Problems

Proceedings of CIPR 2021

Data Analytics in Project Management

The SQL Pro's Guide to Better Business Intelligence

A Financial Times Best Business Book of the Year Named one of 10 Best New Management Books for 2022 by Thinkers50 "An advocate of sustainable capitalism explains how it's done" – The Economist "Polman's new book with the sustainable business expert Andrew Winston...argues that it's profitable to do business with the goal of making the world better." – The New York Times Named as recommended reading by Fortune's CEO Daily "...Polman has been one of the most significant chief executives of his era and that his approach to business and its role in society has been both valuable and path-breaking." – Financial Times The ex-Unilever CEO who increased his shareholders' returns by 300% while ensuring the company ranked #1 in the world for sustainability for eleven years running has, for the first time, revealed how to do it. Teaming up with Andrew Winston, one of the world's most authoritative voices on corporate sustainability, Paul Polman shows business leaders how to take on humanity's greatest and most urgent challenges—climate change and inequality—and build a thriving business as a result. In this candid and straight-talking handbook, Polman and Winston reveal the secrets of Unilever's success and pull back the curtain on some of the world's most powerful c-suites. Net Positive boldly argues that the companies of the future will profit by fixing the world's problems, not creating them. Together the authors explode our most prevalent corporate myths: from the idea that business' only function is to maximise profits, to the naïve hope that Corporate Social Responsibility will save our species from disaster. These approaches, they argue, are destined for the graveyard. Instead, they show corporate leaders how to make their companies "Net Positive"—thriving by giving back more to the world than they take. Net Positive companies unleash innovation, build trust, attract the best people, thrill customers, and secure lasting success, all by helping create stronger, more inclusive societies and a healthier planet. Heal the world first, they argue, and you'll satisfy your investors as a result. With ambitious vision and compelling stories, Net Positive will teach you how to find the inner purpose and courage you need to embrace the only business model that will matter in the years ahead: You will learn how to lead others and unlock your company's soul, while setting and delivering big and aggressive goals, and taking responsibility for all of your company's impacts. You'll find out the secrets to partnering with others, including your competition and critics, to drive transformative change from which you will prosper. You'll build a company that serves your people, your customers, your communities, your shareholders—and your children and grandchildren will thank you for it. Is this win-win for business and humanity too good to be true? Don't believe it. The world's smartest CEOs are already taking their companies on the Net Positive Journey and benefiting as a result. Will you be left behind? Join the movement at netpositive.world

Blockchain is emerging as a powerful technology, which has attracted the wider attention of all businesses across the globe. In addition to financial businesses, IT companies and business organizations are keenly analyzing and adapting this technology for improving business processes. Security is the primary enterprise application. There are other crucial applications that include creating decentralized applications and smart contracts, which are being touted as the key differentiator of this pioneering technology. The power of any technology lies in its ecosystem. Product and tool vendors are building and releasing a variety of versatile and robust toolsets and platforms in order to speed up and simplify blockchain application development, deployment and management. There are other infrastructure-related advancements in order to streamline blockchain adoption. Cloud computing, big data analytics, machine and deep learning algorithm, and connected and embedded devices all are driving blockchain application development and deployment. Blockchain Technology and Applications illustrates how blockchain is being sustained through a host of platforms, programming languages, and enabling tools. It examines: Data confidential, integrity, and authentication Distributed consensus protocols and algorithms Blockchain systems design criteria and systems interoperability and scalability Integration with other technologies including cloud and big data It also details how blockchain is being blended with cloud computing, big data analytics and IoT across all industry verticals. The book gives readers insight into how this path-breaking technology can be a value addition in several business domains ranging from healthcare, financial services, government, supply chain and retail.

This book presents a proof that insize you is working a math genius who dreams at the thought of doing tons of repetitions of the same problem with just numbers changed. You are looking at the right book! This book presents 109 problems categorized into 7 chapters, each chapter corresponding to a major topic. These problems can be solved using the fundamental concepts learned in the middle school. This volume brings together multidisciplinary, situated and nuanced analyses of contingent issues framing a rapidly changing India in the 21st century. It moves beyond the ready dichotomies that are often extended to understand India as a series of contrasts and offers new insights into the complex realities of India today, thereby enabling us to anticipate the decades to come. The editors focus on three major themes, each discussed in a section: The first section, Framing the Macro-Economic Environment, defines the framework for interrogating globalisation and socio-economic changes in India over the last few decades of the 20th century spiraling into India in the 21st century. The next section, Food Security and Natural Resources, highlights critical considerations involved in feeding a burgeoning population. The discussions pose important questions in relation to the resilience of both people and planet confronting increasingly unpredictable climate-induced scenarios. The final section, Development, Activism and Changing Technologies, discusses some of the social challenges of contemporary India through the lens of inequalities and emergent activism. The section concludes with an elaboration of the potential and promise of changing technologies and new social media to build an informed and active citizenry across existing social divides.

Competition Math for Middle School

Chlorophyll Fluorescence Imaging Analysis in Biotic and Abiotic Stress

Disciplinary Transformations within Systems of Power

Analytics in Practice

Linkage, Maps and QTL

Measuring Society

A Problem – Solution Approach

Project Management Data analytics plays a crucial role in business analytics. Without a rigid approach to analyzing data, there is no way to glean insights from it. Business analytics ensures the expected value of change while that change is implemented by projects in the business environment. Due to the significant increase in the number of projects and the amount of data associated with them, it is crucial to understand the areas in which data analytics can be applied in project management. This book addresses data analytics in relation to key areas, approaches, and methods in project management. It examines: • Risk management • The role of the project management office (PMO) • Planning and resource management • Project portfolio management • Earned value method (EVM) • Big Data • Software support • Data mining • Decision-making • Agile project management Data analytics in project management is of increasing importance and extremely challenging. There is rapid multiplication of data volumes, and, at the same time, the structure of the data is more complex. Digging through exabytes and zettabytes of data is a technological challenge in and of itself. How project management creates value through data analytics is crucial. Data Analytics in Project Management addresses the most common issues of applying data analytics in project management. The book supports theory with numerous examples and case studies and is a resource for academics and practitioners alike. It is a thought-provoking examination of data analytics applications that is valuable for projects today and those in the future.

This book introduces the basic concepts and methods that are useful in the statistical analysis and modeling of the DNA-based marker and phenotypic data that arise in agriculture, forestry, experimental biology, and other fields. It concentrates on the linkage analysis of markers, map construction and quantitative trait locus (QTL) mapping, and assumes a background in regression analysis and maximum likelihood approaches. The strength of this book lies in the construction of general models and algorithms for linkage analysis, as well as in QTL mapping in any kind of crossed pedigrees initiated with inbred lines of crops.

Big Data Analytics Architecture Pattern Recipes provides an insight into heterogeneous infrastructures, databases, and visualization and analytics tools used for realizing the architectures of big data solutions. Its problem-solution approach helps in selecting the right architecture to solve the problem at hand. In the process of reading through these problems, you will learn harness the power of new big data opportunities which various enterprises use to attain real-time profits. Big Data Application Architecture Pattern Recipes answers one of the most critical questions of this time "how do you select the best end-to-end architecture to solve your big data problem?". The book deals with various mission critical problems encountered by solution architects, consultants, and software architects while dealing with the myriad options available for implementing a typical solution, trying to extract insight from huge volumes of data in real-time and across multiple relational and non-relational data types for clients from industries like retail, telecommunication, banking, and insurance. The patterns in this book provide the strong architectural foundation required to design big data application. The architectures for realizing these opportunities are based on relatively less expensive and heterogeneous infrastructures compared to the traditional monolithic and hugely expensive options that exist currently. This book describes and evaluates the benefits of heterogeneity which brings with it multiple options of solving the same problem, evaluation of trade-offs and validation of 'fitness-for-purpose' of the solution.

This book includes state-of-the-art discussions on various issues of the implementation, testing, validation, and application of big data in the context of healthcare. The concept of big data is revolutionary, both from a technological and societal well-being standpoint. This book provides a comprehensive reference guide for engineers, scientists, and students studying/involved in the development of big data tools in the areas of healthcare and medicine. It also features a multifaceted and state-of-the-art literature review on healthcare data, its modalities, complexities, and methodologies, along with mathematical formulations. The book is divided into two main sections, the first of which discusses the challenges and opportunities associated with the implementation of big data in the healthcare sector. In turn, the second addresses the mathematical modeling of healthcare problems, as well as current and potential future big data applications and platforms.

A Data-Driven Approach to Making Rational and Effective Project Decisions

Concepts, Methodologies, Tools, and Applications

Intelligent Computing Techniques for Smart Energy Systems

The Enterprise Big Data Lake

Python Machine Learning

World Anthropologies

HR metrics and organizational people-related data are an invaluable source of information from which to identify key trends and patterns in order to make effective business decisions. HR practitioners often, however, lack the statistical and analytical know-how to fully harness their potential. Predictive HR Analytics provides a clear, accessible framework with which to understand and work with people analytics and advanced statistical techniques. Step-by-step and by using worked examples, this book shows readers how to carry out and interpret analyses of various forms of HR data, such as employee engagement, performance and turnover, using the statistical packages SPSS (with R syntax provided), and, importantly, how to use the results to enable practitioners to develop effective evidence-based HR strategies. This second edition of Predictive HR Analytics has been updated to include new material on machine learning, biased algorithms, data protection and GDPR considerations, a new example using Kaplan Meier Survival analyses for tenure/turnover modelling and updated screenshots and examples with SPSS version 25. It is supported by a new appendix showing main R coding for the focal analyses approaches in the book, and online resources consisting of SPSS and Excel data sets and R syntax with worked case study examples.

With this textbook, Vaisman and Zimányi deliver excellent coverage of data warehousing and business intelligence technologies ranging from the most basic principles to recent findings and applications. To this end, their work is structured into three parts. Part I describes "Fundamental Concepts" including conceptual and logical data warehouse design, as well as querying using MDX, DAX and SQLOLAP. This part also covers data analytics using Power BI and Analysis Services. Part II details "Implementation and Deployment," including physical design, ETL and data warehouse design methodologies. Part III covers "Advanced Topics" and it is almost completely new in this second edition. This part includes chapters with an in-depth coverage of temporal, spatial, and mobility data warehousing. Graph data warehouses are also covered in detail using Neo4j. The last chapter extensively studies big data management and the usage of Hadoop, Spark, distributed, in-memory, columnar, NoSQL and NewSQL database systems, and data lakes in the context of analytical data processing. As a key characteristic of the book, most of the topics are presented and illustrated using application tools. Specifically, a case study based on the well-known Northwind database illustrates how the concepts presented in the book can be implemented using Microsoft Analysis Services and Power BI. All chapters have been revised and updated to the latest versions of the software tools used. KPIs and Dashboards are now also developed using DAX and Power BI, and the chapter on ETL has been expanded with the implementation of ETL processes in PostgreSQL. Review questions and exercises complement each chapter to support comprehensive learning and teaching. Supporting this book as a course text is available online and includes electronic versions of all figures, solutions, and slides accompanying each chapter. Overall, students, practitioners and researchers alike will find this book the most comprehensive reference work on data warehouses, with key topics described in a clear and educational style. 'I can only invite you to dive into the contents of the book, feeling certain that once you have completed its reading (or maybe, targeted parts of it), you will join me in expressing our gratitude to Alejandro and Esteban for providing such a comprehensive textbook for the field of data warehousing in the first place, and for keeping it up to date with the recent developments, in this current second edition.' From the foreword by Panos Vassiliadis, University of Ioannina, Greece.

Although statistical design is one of the oldest branches of statistics, its importance is ever increasing. This book describes the principles that underpin good design, paying attention to both the theoretical background and the problems arising from real experimental situations.

ANALYTICS IN PRACTICE:Big Data ImperativesEnterprise 'Big Data' Warehouse, 'BI' Implementations and AnalyticsApress

Mastering the HR Metric

A New Leadership Role

Pro Power BI Desktop

Statistical Genetics of Quantitative Traits

Predictive HR Analytics

Data Warehousing: Design, Development And Best Practices

Proceedings of ICICC 2019, Volume 2

The data lake is a durable new approach for harnessing the power of big data technology and providing convenient self-service capabilities. But is it right for your company? This book is based on discussions with practitioners and executives from more than a hundred organizations, ranging from data-driven companies such as Google, LinkedIn, and Facebook, to governments and traditional corporate enterprises. You'll learn what a data lake is, why enterprises need one, and how to build one successfully with the best practices in this book. Alex Gorski, CTO and founder of Waterline Data, explains why old systems and processes can no longer support data needs in the enterprise. Then, in a collection of essays about data lake implementation, you'll examine data lake initiatives, analytic projects, experiences, and best practices from data experts working in various industries. Get a succinct introduction to data warehousing, big data, and data science Learn various paths enterprises take to build a data lake Explore how to build a self-service model and best practices for providing analysts access to the data Use different methods for architecting your data lake Discover ways to implement a data lake from experts in different industries

Get started with artificial intelligence in your business. This book will help you understand AI, its implications, and how to adopt a strategy that is rational, relevant, and practical. Beyond the buzzwords and the technology complexities, organizations are struggling to understand what AI means for their industry and how they can start their journey. How to Compete in the Age of Artificial Intelligence is not a book about complex formulas or solution architectures. It goes deeper into explaining the meaning and relevance of AI for your business. You will learn how to apply AI thinking across enterprise functions, including disruptive technologies such as IoT, Blockchain, and cloud, and transform your organization. What You'll Learn: Know how to spot AI opportunities and establish the right organizational imperatives to grow your business ; Understand AI in the context of changing business dynamics and the workforce/skills required to succeed ; Discover how to apply AI thinking across enterprise functions, from the boardroom to cybersecurity, IoT, IT operations, policies, and implement a sustainable and integrated human-machine collaboration strategy.

To manage projects, you must not only control schedules and costs; you must also manage growing operational uncertainty. Today's powerful analytics tools and methods can help you do all of this far more successfully. In Project Management Analytics, Harjit Singh shows how to bring greater evidence-based clarity and rationality to all your key decisions throughout the full project lifecycle. Singh identifies the components and characteristics of a good project decision and shows how to improve decisions by using predictive, prescriptive, statistical, and other methods. You'll learn how to mitigate risks by identifying meaningful historical patterns and trends; optimize allocation and use of scarce resources within project constraints; automate data-driven decision-making processes based on huge data sets; and effectively handle multiple interrelated decision criteria. Singh also helps you integrate analytics into the project management methods you already use, combining today's best analytical techniques with proven approaches such as PMI PMBOK® and Lean Six Sigma. Project managers can no longer rely on vague impressions or seat-of-the-pants intuition. Fortunately, you don't have to. With Project Management Analytics , you can use facts, evidence, and knowledge—and get far better results. Achieve efficient, reliable, consistent, and fact-based project decision-making Systematically bring data and objective analysis to key project decisions Avoid "garbage in, garbage out" Properly collect, store, analyze, and interpret your project-related data Optimize multi-criteria decisions in large group environments

Use the Analytic Hierarchy Process (AHP) to improve complex real-world decisions Streamline projects the way you streamline other business processes Leverage data-driven Lean Six Sigma to manage projects more effectively

Deliver eye-catching Business Intelligence with Microsoft Power BI Desktop. This new edition has been updated to cover all the latest features, including combo charts, Cartesian charts, trend lines, use of gauges, and more. Also covered are Top-N features, the ability to bin data into groupings and chart the groupings, and new techniques for detecting and handling outlier data points. You can take data from virtually any source and use it to produce stunning dashboards and compelling reports that will seize your audience's attention. Slice and dice the data with remarkable ease and then add metrics and KPIs to project the insights that create your competitive advantage. Make raw data into clear, accurate, and interactive information with Microsoft's free self-service business intelligence tool, Pro Power BI Desktop shows you how to choose from a wide range of built-in and third-party visualization types so that your message is always enhanced. You'll be able to deliver those results on the PC, tablets, and smartphones, as well as share results via the cloud. This book helps you save time by preparing the underlying data correctly without needing an IT department to prepare it for you. What You'll Learn Deliver attention-grabbing information, turning data into insight Mash up data from multiple sources into a cleaned and coherent data model Create dashboards that help in monitoring key performance indicators of your business Build interdependent charts, maps, and tables to deliver visually stunning information Share business intelligence in the cloud without involving IT Deliver visually stunning and interactive charts, maps, and tables Find new insights as you chop and tweak your data as never before Adapt delivery to mobile devices such as phones and tablets Who This Book Is For Everyone from CEOs and Business Intelligence developers to power users and IT managers

Techniques, Applications and Technologies

Geographic Information Systems (GIS)

Customer Relationship Management

Beginning DAX with Power BI

Big Data Imperatives

Stochastic Frontier Analysis

DQ.

Help your organization determine the value of its customer relationships with Segmentation and Lifetime Value Models Using SAS. This book contains a wealth of information that will help you perform analyses to identify your customers and make informed marketing investments. It answers core questions on customer relationship management (CRM), provides an overall framework for thinking about CRM, and offers real-world examples across a variety of industries. Edward C. Malthouse introduces you to a number of useful models, ranging from simple to more complicated examples, and discusses their applications. You'll learn about segmentation models for identifying groups of customers and about lifetime value models for estimating the future value of the segments. You'll learn how to prepare data and estimate models using Base SAS, SAS/STAT, SAS/IML, and SQL. Marketing analysts, CRM analysts, database managers, and anyone looking to address the challenges of allocating marketing resources to different customer groups will benefit from the concepts and exercises in this book. Analysts will learn how to approach unique business problems. Managers will gain a sense of what's possible and what to ask of their analytics departments.

Attention all SQL Pros, DAX is not just for writing Excel-based formulas! Get hands-on learning and expert advice on how to use the vast capabilities of the DAX language to solve common data modeling challenges. Beginning DAX with Power BI teaches key concepts such as mapping techniques from SQL to DAX, filtering, grouping, joining, pivoting, and using temporary tables, all aimed at the SQL professional. Join author Philip Seamark as he guides you on a journey through typical business data transformation scenarios and challenges, and teaches you, step-by-step, how to resolve challenges using DAX. Tips, tricks, and shortcuts are included and explained, along with examples of the SQL equivalent, in order to accelerate learning. Examples in the book range from beginner to advanced, with plenty of detailed explanation when walking through each scenario. What You 'll Learn Turbocharge your Power BI model by adding advanced DAX programming techniques Know when to use calculated measures versus calculated columns Generate new tables on the fly from existing data Optimize, monitor, and tune Power BI to improve performance of your models Discover new ideas, tricks, and time-saving techniques for better models Who This Book Is For Business intelligence developers, business analysts, or any SQL user who wants to use Power BI as a reporting tool. A solid understanding of SQL is recommended, as examples throughout the book include the DAX equivalents to SQL problem/solution scenarios.

CUSTOMER RELATIONSHIP MANAGEMENTOPERATIONAL CRMANALYTICAL CRMCOMBOLABORATIVE CRMRELATIONSHIP MANAGEMENTTHE CRM MODELSELECTRONIC CUSTOMER RELATIONSHIP MANAGEMENT (E-CRM)CRM IMPLEMENTATIONAPPLICATIONS OF CRM IN HEALTH SECTORFINANCIAL SYSTEM OVERVIEWAPPLICATIONS OF CRM IN THE MANUFACTURING SECTORAPPLICATION OF CRM IN RETAIL SECTORAPPLICATION OF CRM INTELECOM SECTORFUTURE OF CRMConclusionReferenceIndex

Written for the full year or three term Calculus-based University Physics course for science and engineering majors, the publication of the first edition of Physics in 1960 launched the modern era of Physics textbooks. It was a new paradigm at the time and continues to be the dominant model for all texts. Physics is the most realistic option for schools looking to teach a more demanding course. The entirety of Volume 2 of the 5th edition has been edited to clarify conceptual development in light of recent findings of physics education research. End-of-chapter problem sets are thoroughly over-hauled, new problems are added, outdated references are deleted, and new short-answer conceptual questions are added.

Big Data Analytics in Healthcare

Globalisation and the Challenges of Development in Contemporary India

Physics, Volume 2

Advances in Computational and Bio-Engineering

Computational Intelligence in Pattern Recognition

Operations and Service Management: Concepts, Methodologies, Tools, and Applications

Net Positive

Organizations of all types are consistently working on new initiatives, product lines, and workflows as a way to remain competitive in the modern business environment. No matter the type of project at hand, employing the best methods for effective execution and timely completion of the task is essential to business success. Operations and Service Management: Concepts, Methodologies, Tools, and Applications is a comprehensive reference source for the latest research on business operations and production processes. It examines the need for a customer focus and highlights a range of pertinent topics such as financial performance measures, human resource development, and business analytics. This multi-volume book is ideally designed for managers, professionals, students, researchers, and academics interested in operations and service management.

This book will strengthen a student's grasp of the laws of physics by applying them to practical situations, and problems that yield more easily to intuitive insight than brute-force methods and complex mathematics. These intriguing problems, chosen almost exclusively from classical (non-quantum) physics, are posed in accessible non-technical language requiring the student to select the right framework in which to analyse the situation and decide which branches of physics are involved. The level of sophistication needed to tackle most of the two hundred problems is that of the exceptional school student, the good undergraduate, or competent graduate student. The book will be valuable to undergraduates preparing for 'general physics' papers. It is hoped that even some physics professors will find the more difficult questions challenging. By contrast, mathematical demands are minimal, and do not go beyond elementary calculus. This intriguing book of physics problems should prove instructive, challenging and fun.

Big Data Imperatives focuses on resolving the key questions on everyone's mind: Which data matters? Do you have enough data volume to justify the usage? How do you want to process this amount of data? How long do you really need to keep it active for your analysis, marketing, and BI applications? Big data is emerging from the realm of one-off projects to mainstream business adoption; however, the real value of big data is not in the volume of data collected, but in its effective use. Big Data Imperatives describes the complementary nature of traditional data warehouses and big data analytics platforms and how they feed each other. This book aims to help the big data and analytics realms together with a greater focus on architectures that leverage the scale and power of big data and the ability to integrate and apply analytics principles to data which earlier was not accessible. This book can also be used as a handbook for practitioners; helping them on methodology,technical architecture, analytics techniques and best practices. At the same time, this book intends to hold the interest of those new to big data and analytics by giving them a deep insight into the realm of big data.

Collecting and analyzing data on unemployment, inflation, and inequality help describe the complex world around us. When published by the government, such data are called official statistics. They are reported by the media, used by politicians to lend weight to their arguments, and by economic commentators to opine about the state of society. Despite such widespread use, explanations about how these measures are constructed are seldom provided for a non-technical reader. This Measuring Society book is a short, accessible guide to six topics: jobs, house prices, inequality, prices for goods and services, poverty, and deprivation. Each relates to concepts we use on a personal level to form an understanding of the society in which we live. We need a job, a place to live, and food to eat. Using data from the United States, we answer three basic questions: why, how, and for whom these statistics have been constructed. We add some context and flavor by discussing the historical background. This book provides the reader with a good grasp of these measures. Chaitra H. Nagaraja is an Associate Professor of Statistics at the Gabelli School of Business at Fordham University in New York. Her research interests include house price indices and inequality measurement. Prior to Fordham, Dr. Nagaraja was a researcher at the U.S. Census Bureau. While there, she worked on projects relating to the American Community Survey.

Delivering the Promise of Big Data and Data Science

Advanced Math for Middle Schoolers

Implementing a Collaborative Human-machine Strategy for Your Business

CIOs and the Digital Transformation

Data Warehouse Systems

Proceedings of ICTSES 2018

Enterprise 'Big Data' Warehouse, 'BI' Implementations and Analytics

The book compiles the research works related to smart solutions concept in context to smart energy systems, maintaining electrical grid discipline and resiliency, computational collective intelligence consisted of interaction between smart devices, smart environments and smart interactions, as well as information technology support for such areas. It includes high-quality papers presented in the International Conference on Intelligent Computing Techniques for Smart Energy Systems organized by Manipal University Jaipur. This book will motivate scholars to work in these areas. The book also propheisies their approach to be used for the business and the humanitarian technology development as research proposal to various government organizations for funding approval. This book features a collection of high-quality research papers presented at the International Conference on Intelligent and Cloud Computing (ICICC 2019), held at Siksha 'O' Anusandhan (Deemed to be University), Bhubaneswar, India, on December 20, 2019. Including contributions on system and network design that can support existing and future applications and services, it covers topics such as cloud computing system and network design, optimization for cloud computing, networking, and applications, green cloud system design, cloud storage design and networking, storage security, cloud system models, big data storage, intra-cloud computing, mobile cloud system design, real-time resource reporting and monitoring for cloud management, machine learning, data mining for cloud computing, data-driven methodology and architecture, and networking for machine learning systems.

Since the 1960s, anthropological authority has been based on the assumption that it is a unified discipline emanating from the West. In an age of heightened globalization, anthropologists have failed to discuss consistently the current status of their practice and its mutations across the globe. World Anthropology is the first book to provoke this conversation from various regions of the world in order to assess the diversity of relations between regional or national anthropologies and a contested, power-laden Western discourse. Can a planetary anthropology cope with both the 'provincial cosmopolitanism' of alternative anthropologies and the 'metropolitan provincialism' of hegemonic schools? How might the resulting 'world anthropology' challenge the current panorama in which certain allegedly 'national anthropological traditions have more paradigmatic weight' - hence more power - than others? Critically examining the international dissemination of anthropology within and across national power fields, contributors address these questions and provide the outline for a veritable world anthropology project.

Get started with artificial intelligence in your business. This book will help you understand AI, its implications, and how to adopt a strategy that is rational, relevant, and practical. Beyond the buzzwords and the technology complexities, organizations are struggling to understand what AI means for their industry and how they can start their journey. How to Compete in the Age of Artificial Intelligence is not a book about complex formulas or solution architectures. It goes deeper into explaining the meaning and relevance of AI for your business. You will learn how to apply AI thinking across enterprise functions—including disruptive technologies such as IoT, Blockchain, and cloud—and transform your organization. What You'll Learn Know how to spot AI opportunities and establish the right organizational imperatives to grow your businessUnderstand AI in the context of changing business dynamics and the workforce/skills required to succeed Discover how to apply AI thinking across enterprise functions—from the boardroom to cybersecurity, IoT, IT operations, policies—and implement a sustainable and integrated human-machine collaboration strategy Who This Book Is For CxOs, senior executives, mid-level

managers, AI evangelists, digital leads, and technology directors

With Hints and Solutions

How Courageous Companies Thrive by Giving More Than They Take

Project Management Analytics

Big Data Application Architecture Q&A

A Math Competition Primer

Implementing a Collaborative Human-Machine Strategy for Your Business

Proceeding of the International Conference on Computational and Bio Engineering, 2019, Volume 1

This book features high-quality research papers presented at the 3rd International Conference on Computational Intelligence in Pattern Recognition (CIPR 2021), held at the Institute of Engineering and Management, Kolkata, West Bengal, India, on 24 - 25 April 2021. It includes practical development experiences in various areas of data analysis and pattern recognition, focusing on soft computing technologies, clustering and classification algorithms, rough set and fuzzy set theory, evolutionary computations, neural science and neural network systems, image processing, combinatorial

pattern matching, social network analysis, audio and video data analysis, data mining in dynamic environments, bioinformatics, hybrid computing, big data analytics and deep learning. It also provides innovative solutions to the challenges in these areas and discusses recent developments.

Unlock deeper insights into Machine Learning with this vital guide to cutting-edge predictive analytics About This Book Leverage Python's most powerful open-source libraries for deep learning, data wrangling, and data visualization Learn effective strategies and best practices to improve and optimize machine learning systems and algorithms Ask - and answer - tough questions of your data with robust statistical models, built for a range of datasets Who This Book Is For If you want to find out how to use Python to start answering critical questions of your data, pick up Python Machine

Learning - whether you want to get started from scratch or want to extend your data science knowledge, this is an essential and unmissable resource. What You Will Learn Explore how to use different machine learning models to ask different questions of your data Learn how to build neural networks using Keras and Theano Find out how to write clean and elegant Python code that will optimize the strength of your algorithms Discover how to embed your machine learning model in a web application for increased accessibility Predict continuous target outcomes using regression analysis

Uncover hidden patterns and structures in data with clustering Organize data using effective pre-processing techniques Get to grips with sentiment analysis to delve deeper into textual and social media data In Detail Machine learning and predictive analytics are transforming the way businesses and other organizations operate. Being able to understand trends and patterns in complex data is critical to success, becoming one of the key strategies for unlocking growth in a challenging contemporary marketplace. Python can help you deliver key insights into your data - its unique capabilities as a language let you build sophisticated algorithms and statistical models that can reveal new perspectives and answer key questions that are vital for success. Python Machine Learning gives you access to the world of predictive analytics and demonstrates why Python is one of the world's leading data science languages. If you want to ask better questions of data, or need to improve and extend the capabilities of your machine learning systems, this practical data science book is invaluable. Covering a wide range of powerful Python libraries, including scikit-learn, Theano, and Keras, and

featuring guidance and tips on everything from sentiment analysis to neural networks, you'll soon be able to answer some of the most important questions facing you and your organization. Style and approach Python Machine Learning connects the fundamental theoretical principles behind machine learning to their practical application in a way that focuses you on asking and answering the right questions. It walks you through the key elements of Python and its powerful machine learning libraries, while demonstrating how to get to grips with a range of statistical models.

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