

# Data Analytics Pdf

**Jonas Hedman,Rob Gleasure,Madhushi Bandara**

Data Science and Analytics (with Python, R and SPSS Programming) V.K. Jain, The Book has been written completely as per AICTE recommended syllabus on Data Sciences. SALIENT FEATURES OF THE BOOK: Explains how data is collected, managed and stored for data science. With complete courseware for understand the key concepts in data science including their real-world applications and the toolkit used by data scientists. Implement data collection and management. Provided with state of the arts subjectwise. With all required tutorials on R, Python and Bokeh, Anaconda, IBM SPSS-21 and Matplotlib.

*Fundamentals of Data Analytics* Prof. Dipanjan Kumar Dey, : Data analytics help a business optimize its performance, perform more efficiently, maximize profit, or make more strategically-guided decisions. The techniques and processes of data analytics have been automated into mechanical processes and algorithms that work over raw data for human consumption. Various approaches to data analytics include looking at what happened (descriptive analytics), why something happened (diagnostic analytics), what is going to happen (predictive analytics), or what should be done next (prescriptive analytics). Data analytics relies on a variety of software tools ranging from spreadsheets, data visualization, and reporting tools, data mining programs, or open-source languages for the greatest data manipulation.

*Encyclopedia of Business Analytics and Optimization* Wang, John,2014-02-28 As the age of Big Data emerges, it becomes necessary to take the five dimensions of Big Data- volume, variety, velocity, volatility, and veracity- and focus these dimensions towards one critical emphasis - value. The Encyclopedia of Business Analytics and Optimization confronts the challenges of information retrieval in the age of Big Data by exploring recent advances in the areas of knowledge management, data visualization, interdisciplinary communication, and others. Through its critical approach and practical application, this book will be a must-have reference for any professional, leader, analyst, or manager interested in making the most of the knowledge resources at their disposal.

*Data Science and Big Data Analytics* EMC Education Services,2015-01-27 Data Science and Big Data Analytics is about harnessing the power of data for new insights. The book covers the breadth of activities and methods and tools that Data Scientists use. The content focuses on concepts, principles and practical applications that are applicable to any industry and technology environment, and the learning is supported and explained with examples that you can replicate using open-source

software. This book will help you: Become a contributor on a data science team Deploy a structured lifecycle approach to data analytics problems Apply appropriate analytic techniques and tools to analyzing big data Learn how to tell a compelling story with data to drive business action Prepare for EMC Proven Professional Data Science Certification Get started discovering, analyzing, visualizing, and presenting data in a meaningful way today!

**Beginner's Guide for Data Analysis using R Programming** Jeeva Jose, R programming is an efficient tool for statistical analysis of data. Data science has become critical to each field and the popularity of R is skyrocketing. Organization as large and diverse as Google, Facebook, Microsoft, Bank of America, Ford Motor Company, Mozilla, Thomas Cook, The New York Times, The National Weather Service, Twitter, ANZ Bank, Uber, Airbnb etc . have turned to R for reporting, analyzing and visualization of data, this book is for students and professionals of Mathematics, Statistics, Physics, Chemistry, Biology, Social Science and Medicine, Business, Engineering, Software, Information Technology, Sales, Bio Informatics, Pharmacy and any one, where data needs to be analyzed and represented graphically.

**Intelligent Data Analysis** Michael R. Berthold, David J Hand, 2007-06-07 This monograph is a detailed introductory presentation of the key classes of intelligent data analysis methods. The twelve coherently written chapters by leading experts provide complete coverage of the core issues. The first half of the book is devoted to the discussion of classical statistical issues, ranging from the basic concepts of probability, through general notions of inference, to advanced multivariate and time series methods, as well as a detailed discussion of the increasingly important Bayesian approaches and Support Vector Machines. The following chapters then concentrate on the area of machine learning and artificial intelligence and provide introductions into the topics of rule induction methods, neural networks, fuzzy logic, and stochastic search methods. The book concludes with a chapter on Visualization and a higher-level overview of the IDA processes, which illustrates the breadth of application of the presented ideas.

**Smart Grid Security** Florian Skopik, Paul Dr. Smith, 2015-08-11 The Smart Grid security ecosystem is complex and multi-disciplinary, and relatively under-researched compared to the traditional information and network security disciplines. While the Smart Grid has provided increased efficiencies in monitoring power usage, directing power supplies to serve peak power needs and improving efficiency of power delivery, the Smart Grid has also opened the way for information security breaches and other types of security breaches. Potential threats range from meter manipulation to directed, high-impact attacks on critical infrastructure that could bring down regional or national power grids. It is essential that security measures are put in place to ensure that the Smart Grid does not succumb to these threats and to safeguard this critical infrastructure at all times. Dr. Florian Skopik is one of the leading researchers in Smart Grid security, having organized and led research consortia and panel discussions in this field. Smart Grid Security will provide the first truly holistic view of leading edge Smart Grid security research. This book does not focus on vendor-specific solutions, instead providing a

complete presentation of forward-looking research in all areas of Smart Grid security. The book will enable practitioners to learn about upcoming trends, scientists to share new directions in research, and government and industry decision-makers to prepare for major strategic decisions regarding implementation of Smart Grid technology. - Presents the most current and leading edge research on Smart Grid security from a holistic standpoint, featuring a panel of top experts in the field. - Includes coverage of risk management, operational security, and secure development of the Smart Grid. - Covers key technical topics, including threat types and attack vectors, threat case studies, smart metering, smart home, e- mobility, smart buildings, DERs, demand response management, distribution grid operators, transmission grid operators, virtual power plants, resilient architectures, communications protocols and encryption, as well as physical security.

**Enterprise Applications, Markets and Services in the Finance Industry** Jonas Hedman, Rob Gleasure, Madhushi Bandara, 2025-04-22 This book constitutes revised selected papers from the 12th International Workshop on Enterprise Applications, Markets and Services in the Finance Industry, FinanceCom 2024, held in Copenhagen, Denmark, on October 10, 2024. The 5 full papers presented in this volume were carefully reviewed and selected from a total of 8 submissions. They deal with the adoption of innovative technologies in the financial services industry. In addition, two invited papers which are closely related with the conference topics were also included after a thorough review. The conference features five main themes: networks and business models, financial markets, IT and implementations, new emerging digital and virtual financial markets, and AI revolution in finance.

**Databases and Information Systems** Audrone Lupeikiene, Olegas Vasilecas, Gintautas Dzemyda, 2018-08-14 This book constitutes the refereed proceedings of the 13th International Baltic Conference on Databases and Information Systems, DB&IS 2018, held in Trakai, Lithuania, in July 2018. The 24 revised papers presented were carefully reviewed and selected from 69 submissions. The papers are centered around topics like information systems engineering, enterprise information systems, business process management, knowledge representation, ontology engineering, systems security, information systems applications, database systems, machine learning, big data analysis, big data processing, cognitive computing.

*The Digital Transformation of Auditing and the Evolution of the Internal Audit* Nabyla Daidj, 2022-10-18 The main objective of this book is to provide both academics and practitioners with a global vision of the evolution of internal auditing in a fast-changing business landscape driven by digital transformation. Digital transformation has been first associated with the emergence and the development of new technologies (artificial intelligence, blockchain, cloud computing, data analytics, predictive analytics, robotic process automation, IOT, drones etc.). Beyond the technological dimensions, this transformation has several impacts on businesses, organizations and processes and raises several questions for auditing activities. This book explores how digitalization not only has an impact on the audit environment, but also on internal audit practices and methodologies, information technology (IT)/information system (IS) audit, IT governance and risk management. The auditing

profession also has to face the same challenges. Auditors should develop new skills. To continue to provide high quality service in such an environment, the methodologies, the process and the tools used for conducting an audit have progressively changed from those applied to the traditional audit. Internal audit, as a key strategic function, must evolve too. Finally, the book also investigates the impact of the COVID-19 pandemic on internal auditing. The author highlights the need for a new vision and renewed forecasting tools. The post-COVID-19 business and corporate world has changed. Internal audit, as a key strategic function, must evolve too.

Introduction to Statistics and Data Analysis Christian Heumann, Michael Schomaker, Shalabh, 2017-01-26 This introductory statistics textbook conveys the essential concepts and tools needed to develop and nurture statistical thinking. It presents descriptive, inductive and explorative statistical methods and guides the reader through the process of quantitative data analysis. In the experimental sciences and interdisciplinary research, data analysis has become an integral part of any scientific study. Issues such as judging the credibility of data, analyzing the data, evaluating the reliability of the obtained results and finally drawing the correct and appropriate conclusions from the results are vital. The text is primarily intended for undergraduate students in disciplines like business administration, the social sciences, medicine, politics, macroeconomics, etc. It features a wealth of examples, exercises and solutions with computer code in the statistical programming language R as well as supplementary material that will enable the reader to quickly adapt all methods to their own applications.

**Current Issues on Digital Transformation, Corporate Entrepreneurship, and Coopetition** Anna Ujwary-Gil, 2024-01-01 An integrated PLS-SEM model on the interplay of antecedents and moderators driving corporate entrepreneurship activity in South Africa  
**PURPOSE:** Corporate entrepreneurship (CE) is a multi-faceted phenomenon, and although there is extant research on CE, there are knowledge gaps that warrant a deeper understanding. Indeed, focusing solely on independent variables overlooks the extent to which CE activities are mutually and reciprocally supportive. We align our article with research calls for theory building, which provides a novel understanding of the dynamic complexity of the CE process.  
**METHODOLOGY:** In this regard, we formulate and empirically evaluate an integrated CE model that reflects the integrative complexity of the antecedents driving CEA. The study context is the South African banking sector, where primary data ( $n = 312$ ) is obtained via a structured survey. Four meta-hypotheses and several sub-hypotheses, reflecting the organizational, individual, and environmental level antecedents, are tested using partial least squares structural equation modeling (PLS-SEM).  
**FINDINGS:** The main study finding validates that corporate strategy is the bedrock of CEA. The results also reveal that entrepreneurial strategy, entrepreneurial structure, transformational leadership, organizational resources, and an entrepreneurial mindset are significant predictors of CEA.  
**IMPLICATIONS:** Practical implications highlight that it is important for managers to consider the configuration of the predictors within the CE model, which function as pathways to

entrepreneurial corporate strategy. ORIGINALITY AND VALUE: Our study makes a unique contribution by developing and testing an integrated and comprehensive model reflecting the dynamic complexity of the antecedents driving CEA. It is anticipated that the results will allow researchers to compare and examine comparable antecedents to CEA and their applicability in global country contexts. Keywords: corporate entrepreneurship, antecedents, entrepreneurial strategy, organizational resources, transformational leadership, entrepreneurial mindset, partial least squares structural equation modelling, PLS-SEM, South Africa. Pushing coopetition research further: Understanding, relevance, and operationalization of the attributes of coopetition strategies and cooperative relationships PURPOSE: Although coopetition was defined three decades ago and is intensively investigated, its theoretical and research cognition remains far from thoroughly understood. The lack of conceptual consistency prevents researchers from conducting comparable research, leading to more generalizable results, and thus from building coherent knowledge. This study addresses the above shortcoming by the development of operationalizations of two types of attributes assigned to coopetition: strategic attributes characterizing coopetition strategies and relational attributes characterizing cooperative relationships. METHODOLOGY: In our study, we adopted a two-step research process consisting of qualitative verification of a list of 8 coopetition attributes (2 strategic and 6 relational) identified in prior literature as relevant for coopetition success and the development of integrative conceptualization and measurement approaches for them. The verification was conducted through focus group interviews with scholars experienced in coopetition research and senior managers from firms adopting coopetition strategies. The measurement approaches for the positively verified attributes were developed through the integration of (1) approaches used so far in coopetition literature, (2) approaches used to date in the literature on the features of inter-organizational relationships, and (3) approaches that emerged during the focus group interviews. FINDINGS: This study shows two strategic (i.e., dynamics and paradoxicality) and six relational (i.e., asymmetry, complexity, intensity, mutual dependence, strength, and tensions) coopetition attributes as heterogeneously relevant for coopetition success and offers multi-item operationalizations for them derived from a combination of prior literature and qualitative research. IMPLICATIONS: Our paper shows strategic and relational attributes of coopetition as theoretically and practically relevant for coopetition success. ORIGINALITY AND VALUE: As a contribution, this study offers scientifically grounded operationalizations of eight attributive success factors of coopetition. The developed measurement proposals can find valuable applications in two ways. First, coopetition researchers can use them in their studies, and a consistent measurement approach will allow for the comparison of research results, bringing us closer to drawing more general conclusions. Second, coopetition practitioners can use these proposals when managing coopetition, for instance, to evaluate, monitor, and intentionally shape them to make coopetition (more) successful. Keywords: coopetition, focus group interviews, operationalization, measurement scale, cooperative relationships, coopetition strategies Guiding incumbent companies in navigating digital transformations: A qualitative study

on structural ambidexterity and strategic leadership PURPOSE: Despite digital transformation being a focus topic for incumbent companies, organizational structures are a significant barrier to their success. Referring to the positive correlation between ambidexterity and digital innovation, our research provides guidance on structural ambidexterity for incumbent companies. Previous research has barely differentiated between exploration and exploitation in digital transformation. In the present paper, we fill part of this research gap by focusing on structural ambidexterity in digital transformations and providing guidance on how incumbent companies can overcome organizational challenges. METHODOLOGY: Our research is based on an explorative research design with 33 semi-structured interviews that allow in-depth information. The interview partners were selected using purposive sampling and represented different industry and hierarchy levels. All of them have been in a position related to digital transformation in an incumbent company for the last two years. We ensure scholarly rigor using thematic analysis to analyze our data. FINDINGS: Our decision tree guides separation or integration based on the closeness of digital activities to the core business and the association of the activities to exploration or exploitation. Additionally, we recommend considering the digital maturity grade in the decision-making. Developing a cross-functional digital transformation strategy and pursuing a balanced portfolio fosters ambidexterity in digital transformation. Clear responsibilities, collaborative decision-making, candidate selection, and collaboration with IT are essential leadership activities. IMPLICATIONS for theory and practice: Our research expands the existing research on digital transformations of incumbent companies. We specifically contribute to the limited details on how to separate digital activities considering an exploration/exploitation perspective. Our study guides practitioners to address one of their major challenges in digital transformations with the help of our decision tree. ORIGINALITY AND VALUE: Based on the positive correlation between ambidexterity and digital innovation, our study contributes to the existing research by providing in-depth knowledge of structural ambidexterity in digital transformations. This detailed information is essential to provide knowledge on enabling the positive correlation between ambidexterity and innovation in the context of structural ambidexterity. Keywords: digital transformation, digitalization, organizational structures, structural ambidexterity, temporal ambidexterity, incumbent companies, guidelines Leveraging green innovation from big data analytics: Examining the role of resource orchestration and green dynamic capabilities PURPOSE: The notion of big data analytics (BDA) has received increased attention from both researchers and managers. Keeping in view the significance of BDA, the current research aims to examine the role of BDA capability to leverage firm green innovation (GI). Drawing from the dynamic capability view, current study suggests that BDA capability prompts green dynamic capabilities (DCs), enabling organizations to attain GI successfully. Particularly, present study proposes that BDA analytics prompt GI directly as well as through green DCs. Moreover, this study also draws from complementarity perspective and proposes that resource orchestration capability (ROC) is likely to enhance the effectiveness of green DCs in eliciting GI. Thus, the objectives of the current study are

threefold; first, it aims to unveil the role of BDA capability in prompting GI; second, it examines the mediating role of green DCs for the relationship between BDA capability and GI; and third, this research examines the moderating effect of ROC to examine if it strengthens the effects of green DCs. **METHODOLOGY:** This study involves testing hypotheses using primary data collected by using the method of survey questionnaire. The data were collected from 291 Pakistani organizations. Pakistan is an emerging economy where businesses are responsible for substantial amounts of carbon di-oxide and greenhouse gasses (GHG) emissions. Therefore, Pakistani organizations serve as a suitable context for the study. The respondent organizations were from both the manufacturing and service sectors. PLS-SEM was employed as an analytical approach for testing the hypotheses. Construct validity and reliability were confirmed prior to hypotheses testing. **FINDINGS:** Results demonstrate that BDA capability positively affects GI ( $\beta=0.33$ ,  $p<0.01$ ), indicating that organizations with strong BDA capabilities involve in GI activities. Likewise, results indicate a positive relationship between BDA capability and green DCs ( $\beta=0.35$ ,  $p<0.01$ ) and between green DCs and GI ( $\beta=0.50$ ,  $p<0.01$ ). Results also indicate that green DCs play a mediating role between BDA capability and firm GI ( $\beta=0.18$ ,  $p<0.01$ ). This indicates that BDA capability is an imperative capability of organization that promotes green DCs and fosters GI. Finally, findings indicate that ROC strengthens the effectiveness of green DCs in prompting GI ( $\beta=0.14$ ,  $p<0.01$ ). **IMPLICATIONS:** Findings imply that organizations that prioritizing green innovations (GI) should invest more in developing BDA capabilities. These actions may involve acquiring and analyzing large volumes of data associated with sustainability, which can provide insights and support decision-making processes. By leveraging BDA capability, managers can uncover insights and patterns that can help them make informed decisions, recognize areas for improvement, and devise innovative solutions to align organizational strategic objectives with sustainability goals. **ORIGINALITY AND VALUE:** This study contributes to the literature by offering an integrated framework based on BDA and DCs to seek solutions to economic concerns while ensuring the sustainability value of the business activities. The findings also imply that businesses should focus on developing ROC, and integrating them with green DCs to further enhance GI initiatives. **Keywords:** big data analytics capability, green innovation, green dynamic capabilities, resource orchestration, PLS-SEM

**Defining analytical skills for human resources analytics:** A call for standardization

**PURPOSE:** Human resources (HR) analytics systems, powered by big data, AI algorithms, and information technology, are increasingly adopted by organizations to enhance HR's impact on business performance. However, despite the widespread acknowledgment of the importance of "analytical skills" among HR practitioners in successfully implementing HR analytics systems, the specific nature of these skills remains unclear. This paper aims to address this ambiguity by firstly clarifying the concept of "analytical skills," secondly identifying skill gaps that may hinder the effective utilization of computer-assisted analytics among HR practitioners, and thirdly advocating for standardization in the understanding of "analytical skills" within the business context, particularly within HR. **METHODOLOGY:** We examine business "analytical skills" through the

theoretical framework of the knowledge, skills, and abilities (KSA) included in the Occupational Information Network (O\*NET) content model. Using data from the O\*NET database, occupations were classified into Human Resource Management (HRM) and Analytical occupations. Then, we identified the top highly required KSAs in analytical occupations and compared their levels with those of HRM occupations to pinpoint potential gaps hindering the effective utilization of HR analytics. FINDINGS: Using the O\*NET database, which describes work and worker characteristics, we establish the highly required analytical KSAs in the business analytics context that might be labeled “analytical skills”. Then, the gap analyses reveal that important analytical KSAs, such as knowledge of sales and marketing, skills in operations analysis, and abilities in mathematical and inductive reasoning, are not expected from HR occupations, creating serious barriers to HR analytics development. In general, we have found that while HR practitioners possess some of the necessary analytical KSAs, they often lack in areas such as mathematics, computers, and complex problem-solving. IMPLICATIONS: Our findings underscore the need for standardization in HR analytics definitions, advocating for the adoption of the O\*NET content model as a universal framework for understanding HR analytical knowledge, skills, and abilities (KSAs). By identifying critical analytical KSAs, our research can assist HR departments in improving training, recruitment, and development processes to better integrate HR analytics. Furthermore, we identify significant gaps in analytical skills among HR practitioners, offering potential solutions to bridge these gaps. From a theoretical perspective, our precise definition of HR “analytical skills” in terms of analytic KSAs can enhance research on the effects of HR analytics on organizational performance. This refined understanding can lead to more nuanced and impactful studies, providing deeper insights into how HR analytics contributes to achieving strategic business goals. ORIGINALITY AND VALUE: Our research offers three original insights. First, we establish a standard for HR analyst skills based on the O\*NET content model, providing a clear framework for the essential knowledge, skills, and abilities required in HR analytics. Second, we identify significant analytical gaps among HR professionals, highlighting areas that need development and attention. Third, we recognize the necessity for closer cooperation between HR and professional analysts, emphasizing that such collaboration is crucial for maximizing the benefits of computer-assisted HR analytics. These insights ensure that HR analytics can move beyond being a management fad and have a real, lasting impact on business outcomes. Keywords: analytical skills, human resources analytics, HR analytics, knowledge, skills, abilities, HRM, analysts, O\*NET, big data, AI, standardization Digital servitization and leadership: A holistic view on required leadership traits and skills PURPOSE: Digitalization and servitization are two major developments significantly disrupting companies’ competitive landscape. The research area that combines both aspects, digital servitization, poses substantial opportunities and challenges for companies to navigate. It requires guidance from leadership to succeed and innovate, but current scientific research lacks a holistic view on leadership for digital servitization so far. METHODOLOGY: We conducted 30 semi-structured interviews with leaders active in digital servitization initiatives, holding



positions ranging from first-level managers to vice presidents and executives. Eighteen have more than ten years of leadership experience. Through inductive coding, we derived 43 codes within a qualitative analysis. We applied thematic analysis to structure our findings, resulting in a thematic map of leadership skills for digital servitization based on the research participants' insights. FINDINGS: Our findings present a holistic view of leadership skills for digital servitization. Leaders need to consider the perspectives of strategic business and people leadership. Digital servitization requires leaders to engage in a wide range of activities. From a strategic business leadership perspective, this ranges from evolving goal setting, a comprehensive business understanding, the ability to find the right team composition, and understanding customer and market needs. The people leadership perspective requires leaders to create and communicate a vision for digital servitization and manage change and employees' fears while enabling and empowering employees. Furthermore, we identified that digital servitization requires a balanced level of cognitive, interpersonal, business, and strategic leadership requirements. IMPLICATIONS: We contribute to scientific research by providing a comprehensive definition of digital servitization and summarizing existing research focusing on leadership aspects of digital servitization. Our findings offer actionable insights for practitioners by approaching with a holistic view on digital servitization and considering strategic business and people leadership aspects. Applying our outlined themes will support leaders in improving the conditions and possibilities to successfully trigger and implement digital servitization activities within their companies. ORIGINALITY AND VALUE: Our research combines isolated leadership aspects for digital servitization and underlines the complexity of digital servitization, emphasizing the need for a holistic view. Outlining the element of balancing business and people skills provides novel insights on advancing digital servitization into the research domain, which is dominated by technical-oriented research. Keywords: digital servitization, leadership, servitization, digitalization, change management, innovation, digital transformation, business, strategy

**Managing at a Distance** Tom Coughlan, David J. Fogarty, Gary Bernstein, Lynda Wilson, 2024-02-26 The world of hybrid and remote management is a territory that has yet to be completely explored—this book provides some simple navigational aids to help managers and leaders find their way. Research indicates that over 56% of college graduates currently work either remotely or in a hybrid arrangement, while prior to the pandemic, less than 5% of working hours were remote. How to manage remote and hybrid workers has rapidly become a significant challenge, and one that often requires new policies and organizational restructuring. The remote work handbooks available are tactical, which can be helpful for day-to-day decisions but not to tackle larger issues and initiatives. This book presents a fully formed, research-backed strategic framework: more than a vehicle to the future, it will help leaders to understand where they are now and what is happening around them to change the landscape, and to decide where they want to be. Speaking to senior executives and team leaders, as well as business students, this book will become the preferred tool for the development and evaluation of remote and hybrid

management policy and strategy across industries.

**Proceedings of the International Conference on Business and Management Dynamics 2016: Sustainable economies in the information economy** Joy E. Akahome, Michael Twum-Darko, Cyril Ogbokor, Nyaniso Mfusi Zonke, T. Sethibe, R. Steyn, Esme Mohammed, Renier Steyn, L.B. Nguenang, Mamorena Lucia Matsoso, Henry N. Ozuru, Julius Akaba, Patient Rambe, Edem Korku Agbobli, Henri-Vincent Ndjave-Ndjoy, Regis Muchemwa, Andre de la Harpe, Konosoang Mpiti, Ayodeji Afolayan, 2016-12-31 Cape Town, South Africa, 7 Sept. 2016 – 8 Sept. 2016. Theme: Sustainable economies in the information economy. Purpose: To share the quality academic papers presented at the International Conference on Business and Management Dynamics (ICBMD) held from 7 to 8 September 2016 at African Pride Crystal Hotel and Spa in Cape Town. As grey literature, the proceedings are the contributions made by researchers at the conference and are considered the written record of the work that was presented to fellow conference delegates. Methodology: The methodology used varies from researcher to researcher but are suitable for the studies conducted. Thus, on the one hand, studies that were subjective in nature used the interpretive paradigm, where the qualitative approach adopted made use of the interview method to collect data. On the other hand, studies that were objectively inclined adopted the positivist philosophy and used survey questionnaires to collect data. However, there were some academic papers which used mixed methodology because of the nature of the study. Whatever methodology used adhered to the ethos of the philosophies underpinning the methodology. Contribution made to scholarship: The articles come from individual researchers and each article in the proceedings is unique. Mostly, there is no general argument leading from one contribution to the next. However, it is interesting to note that in the area of economic performance it was evident that real exchange rate and net foreign direct investment contribute more towards innovations in economic growth. With regard to human capital development, papers presented evidence that there exists a definite need to explore the phenomenon of personal branding as limited scientific academic research has been done within the field of personal branding or on elements of the topic. Thus, the outcome argues that personal branding has an influence on leadership style which in turn impacts on organisational performance and related hygiene factors. Furthermore, it was demonstrated that current methods or strategies for enforcing institutionalisation of knowledge sharing within an organisation have not been successful, and, as such, new strategies are needed to reinforce efforts to nurture and invigorate the institutionalisation of knowledge sharing within an organisation. With regard to technology and big data impact on organisational performance, it was evident that system performance, memory consumption and CPU utilisation can be used as criteria to compare and evaluate big data technologies to improve organisational performance. Most of the articles' contribution reemphasised technology education and training as a means of digitising business and improving effectiveness. Target audience: The target readership is academic researchers and business leaders who require access to the latest developments in the fields of economics, information management,

business, education, development studies, social sciences and technology. It is also for policymakers and other stakeholders who need a better understanding of the impact of new developments on existing policies and regulations for their review or amendment.

**Advanced Data Analytics Using Python** Sayan Mukhopadhyay, 2018-03-29 Gain a broad foundation of advanced data analytics concepts and discover the recent revolution in databases such as Neo4j, Elasticsearch, and MongoDB. This book discusses how to implement ETL techniques including topical crawling, which is applied in domains such as high-frequency algorithmic trading and goal-oriented dialog systems. You'll also see examples of machine learning concepts such as semi-supervised learning, deep learning, and NLP. Advanced Data Analytics Using Python also covers important traditional data analysis techniques such as time series and principal component analysis. After reading this book you will have experience of every technical aspect of an analytics project. You'll get to know the concepts using Python code, giving you samples to use in your own projects. What You Will Learn Work with data analysis techniques such as classification, clustering, regression, and forecasting Handle structured and unstructured data, ETL techniques, and different kinds of databases such as Neo4j, Elasticsearch, MongoDB, and MySQL Examine the different big data frameworks, including Hadoop and Spark Discover advanced machine learning concepts such as semi-supervised learning, deep learning, and NLP Who This Book Is For Data scientists and software developers interested in the field of data analytics.

Getting Started with Data Science Murtaza Haider, 2016

Nanomechanics and Micromechanics Satya Bir Singh, Alexander V. Vakhrushev, A. K. Haghi, 2020-05-01 This volume enables readers to interpret and predict the effective mechanical properties of existing and emerging composites through modeling and design. The book addresses that materials and structures with small-scale dimensions do not behave in the same manner as their bulk counterparts. Once the dimensions of the materials are reduced to the micron and sub-micron range, their properties are subject to significant change. Thus, mechanical properties will be varied and will depend on the sample size. In the meantime, due to the large surface-to-volume ratio of small structures, deformation mechanisms are subject to change. This volume integrates various approaches in micromechanics and nanomechanics into a unified mathematical framework, complete with coverage of both linear and nonlinear behaviors. It weaves together the basic concepts, mathematical fundamentals, and formulations of micromechanics and nanomechanics into a systemic approach for understanding and modeling the effective material behavior of composite materials. While providing information on recent developments in the mathematical framework of micro- and nanomechanics, the volume addresses highly localized phenomena and a number of interesting applications. It also illustrates application of micromechanical and nanomechanical theory to design novel engineering materials.

Introduction to Data Science and Machine Learning Keshav Sud, Pakize Erdogmus, Seifedine Kadry, 2020-03-25

Introduction to Data Science and Machine Learning has been created with the goal to provide beginners seeking to learn about data science, data enthusiasts, and experienced data professionals with a deep understanding of data science application development using open-source programming from start to finish. This book is divided into four sections: the first section contains an introduction to the book, the second covers the field of data science, software development, and open-source based embedded hardware; the third section covers algorithms that are the decision engines for data science applications; and the final section brings together the concepts shared in the first three sections and provides several examples of data science applications.

**Business Analytics** S. Christian Albright, Wayne L. Winston, 2015

**Learning to Love Data Science** Mike Barlow, 2015-10-27 Until recently, many people thought big data was a passing fad. Data science was an enigmatic term. Today, big data is taken seriously, and data science is considered downright sexy. With this anthology of reports from award-winning journalist Mike Barlow, you'll appreciate how data science is fundamentally altering our world, for better and for worse. Barlow paints a picture of the emerging data space in broad strokes. From new techniques and tools to the use of data for social good, you'll find out how far data science reaches. With this anthology, you'll learn how: Analysts can now get results from their data queries in near real time Indie manufacturers are blurring the lines between hardware and software Companies try to balance their desire for rapid innovation with the need to tighten data security Advanced analytics and low-cost sensors are transforming equipment maintenance from a cost center to a profit center CIOs have gradually evolved from order takers to business innovators New analytics tools let businesses go beyond data analysis and straight to decision-making Mike Barlow is an award-winning journalist, author, and communications strategy consultant. Since launching his own firm, Cumulus Partners, he has represented major organizations in a number of industries.

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