

big data analytics case study

Big Data Analytics Case Study: Transforming Business Through Data-Driven Insights

big data analytics case study often highlights the transformative power of leveraging vast amounts of information to drive smarter decision-making. In today's fast-paced digital world, companies across various industries are harnessing big data analytics to uncover hidden patterns, predict trends, and optimize operations. This article delves into a compelling big data analytics case study that showcases how an organization successfully implemented advanced data strategies to achieve remarkable business outcomes.

The Role of Big Data Analytics in Modern Business

Before diving into the case study, it's important to understand why big data analytics has become a cornerstone of modern business strategy. Big data refers to the extremely large datasets that traditional data processing software cannot handle efficiently. Analytics involves extracting meaningful insights from this data to inform decisions.

Many organizations struggle with challenges like data variety, velocity, and volume—commonly known as the 3Vs of big data. Overcoming these challenges with sophisticated analytics tools allows businesses to:

- Identify customer preferences and tailor marketing campaigns
- Improve supply chain efficiency and forecast demand accurately
- Enhance product development through user behavior insights
- Detect fraud and bolster cybersecurity measures

With that context in mind, let's explore a real-world big data analytics case study that demonstrates these benefits in action.

Case Study Overview: Retail Giant's Journey to Data-Driven Success

A leading retail corporation, operating thousands of stores worldwide, faced challenges in managing inventory, understanding customer behavior, and optimizing supply chains. Despite having access to enormous amounts of customer and operational data, their existing analytics capabilities were limited, hindering timely decision-making.

The company embarked on a big data analytics initiative with three primary goals:

1. Reduce inventory costs while preventing stockouts
2. Increase customer satisfaction through personalized experiences
3. Streamline supply chain operations to reduce delivery delays

This case study illustrates the step-by-step approach the retailer took to harness big data and the tangible results achieved.

Data Collection and Integration

The first challenge was consolidating data from multiple sources—point-of-sale systems, online transactions, social media interactions, and supply chain sensors. The retailer implemented a centralized data lake using Hadoop, capable of storing structured and unstructured data at scale.

By integrating real-time sales data with customer demographics and social media sentiment analysis, the company gained a holistic view of its market environment. This integration enabled more accurate demand forecasting and customer profiling.

Advanced Analytics and Machine Learning Models

With a robust data infrastructure in place, the retailer developed machine learning models to predict purchasing trends and optimize inventory levels. For example, time series forecasting algorithms analyzed past sales patterns combined with external factors like seasonal events and weather conditions.

Moreover, clustering techniques segmented customers based on buying behavior, allowing for targeted marketing campaigns. Predictive analytics also flagged potential supply chain disruptions, enabling proactive adjustments.

Visualization and Decision Support

Data visualization tools played a crucial role in turning complex analytics into actionable insights for executives and store managers. Interactive dashboards displayed key performance indicators (KPIs) such as stock turnover rates, customer satisfaction scores, and delivery timelines.

This transparency empowered frontline employees to make informed decisions promptly, fostering a culture of data-driven operations throughout the organization.

Key Outcomes and Business Impact

The retailer's investment in big data analytics yielded impressive results within the first year:

- Inventory costs dropped by 15% due to more precise stock replenishment.
- Customer retention rates improved by 10%, driven by personalized offers and enhanced shopping experiences.
- Supply chain efficiency increased, reducing average delivery times by 20%.
- Overall sales grew by 8%, reflecting better alignment between product availability and customer demand.

These outcomes underscore how big data analytics can directly influence profitability and operational excellence.

Lessons Learned from the Big Data Analytics Case Study

This case study offers valuable insights for organizations considering similar initiatives:

- **Start with clear business objectives:** Align analytics efforts with strategic goals to ensure relevance.
- **Invest in scalable infrastructure:** Handling big data requires robust storage and processing capabilities.
- **Leverage cross-functional teams:** Collaboration between data scientists, IT professionals, and business leaders accelerates success.
- **Emphasize data quality:** Accurate and clean data is fundamental for reliable analytics outcomes.
- **Focus on user-friendly tools:** Visualization and reporting platforms help democratize data access.

Emerging Trends in Big Data Analytics

The field of big data analytics continues to evolve rapidly. Beyond traditional descriptive and predictive analytics, companies are adopting techniques such as:

- **Real-time analytics:** Processing streaming data instantly for faster responses.
- **Artificial intelligence integration:** Enhancing analytics with natural language processing and computer vision.
- **Edge analytics:** Analyzing data closer to its source to reduce latency.
- **Data governance frameworks:** Ensuring compliance and ethical use of data.

By staying abreast of these trends, businesses can maintain a competitive edge and unlock new opportunities.

How to Get Started with Your Own Big Data Analytics Case Study

If you're inspired by this example and want to embark on your own big data analytics journey, consider the following steps:

1. **Assess your current data assets:** Identify what data you have and what additional sources could be valuable.
2. **Define clear success metrics:** What business problems will analytics help solve?
3. **Choose appropriate technology platforms:** Evaluate cloud-based and on-premise solutions.
4. **Build or hire analytical expertise:** Skilled data scientists and analysts are essential.
5. **Start small and scale up:** Pilot projects can demonstrate value and guide broader adoption.

Embarking on such an initiative requires commitment, but as demonstrated in this big data analytics case study, the rewards can be transformative.

Harnessing the power of big data is no longer a luxury but a necessity for businesses aiming to thrive in a data-driven economy. By learning from successful case studies and applying best practices, organizations can unlock insights that were previously unimaginable, paving the way for smarter, faster, and more effective decision-making.

Frequently Asked Questions

What is a big data analytics case study?

A big data analytics case study is a detailed examination of a real-world scenario where big data technologies and methodologies are applied to analyze large datasets to extract actionable insights and solve business problems.

Why are big data analytics case studies important?

Big data analytics case studies are important because they provide practical examples of how organizations leverage big data to improve decision-making, optimize operations, and gain competitive advantages, helping others learn from real experiences.

What industries commonly use big data analytics case studies?

Industries such as healthcare, finance, retail, telecommunications, manufacturing, and transportation commonly use big data analytics case studies to optimize processes, enhance customer experiences, detect fraud, and predict trends.

What are some key components of a big data analytics case study?

Key components include the business problem, data sources, analytics techniques used, tools and technologies implemented, results achieved, challenges faced, and lessons learned.

How does big data analytics improve decision making in case studies?

Big data analytics improves decision making by providing insights derived from analyzing vast amounts of structured and unstructured data, enabling organizations to identify patterns, predict outcomes, and make data-driven strategic decisions.

What tools are often highlighted in big data analytics case studies?

Commonly highlighted tools include Hadoop, Spark, Apache Kafka, Tableau, Python, R, and cloud platforms like AWS and Azure, which facilitate data processing, storage, analysis, and visualization.

Can you provide an example of a successful big data analytics case study?

One example is how a retail company used big data analytics to analyze customer purchase behavior and inventory data, leading to optimized stock levels, personalized marketing campaigns, and a significant increase in sales.

What challenges are typically discussed in big data analytics case studies?

Challenges often include data privacy concerns, data quality and integration issues, scalability of analytics solutions, skill gaps in data science, and managing the complexity of big data infrastructure.

How do big data analytics case studies help in technology adoption?

They demonstrate real-world benefits and practical applications, helping organizations understand potential ROI, identify best practices, and build confidence in adopting big data technologies for their own use cases.

Additional Resources

Big Data Analytics Case Study: Transforming Business Insights through Data-Driven Strategies

big data analytics case study serves as a crucial lens to understand how organizations leverage vast amounts of data to drive strategic decisions, improve operational efficiency, and enhance customer experiences. In an era where data generation is exponential, companies across various industries are adopting big data analytics to maintain competitive advantages and foster innovation. This article delves into a comprehensive big data analytics case study, examining how a multinational retail corporation harnessed data to revolutionize its supply chain management and marketing efforts, highlighting the methodologies, technologies, challenges, and outcomes involved.

Understanding the Context: The Role of Big Data Analytics in Retail

Retail businesses generate enormous volumes of structured and unstructured data from point-of-sale systems, customer loyalty programs, social media interactions, and online shopping behaviors. The ability to analyze this data in real time enables retailers to anticipate consumer demands, optimize inventory, and tailor promotional campaigns. The case study in focus involves a global retail giant that faced challenges in inventory overstock, missed sales opportunities, and customer churn due to fragmented data sources and limited analytical capabilities.

By implementing a big data analytics framework, the company aimed to integrate disparate data streams, uncover actionable insights, and foster a data-driven culture. This initiative aligns with broader trends in the retail sector, where big data analytics is increasingly recognized for its potential to transform traditional business models.

Case Study Overview: Big Data Analytics Implementation

The retail corporation embarked on a multi-phase big data analytics project with clear objectives:

- Enhance demand forecasting accuracy to reduce inventory costs.
- Personalize marketing efforts based on customer segmentation.
- Improve supply chain responsiveness through real-time analytics.

Data Collection and Integration

The first critical step involved aggregating data from numerous sources including sales transactions, online browsing patterns, social media sentiment, weather forecasts, and supplier delivery schedules. The company utilized big data platforms such as Apache Hadoop and Apache Spark to handle the volume, velocity, and variety of data, ensuring scalability and flexibility.

Data cleansing processes were instituted to address inconsistencies and missing values, a common hurdle in big data projects. Integrating structured data (like sales records) with unstructured data (customer reviews, social media posts) required advanced natural language processing (NLP) tools, enabling the extraction of sentiment and customer preferences.

Analytical Techniques and Tools

The analytics team deployed machine learning algorithms for predictive modeling, including time series forecasting and classification methods. For example, demand forecasting models integrated historical sales data with external variables such as holidays and weather conditions, enhancing prediction precision.

Customer segmentation was achieved through clustering algorithms, which grouped customers based on purchasing behavior, demographics, and engagement levels. This segmentation informed targeted marketing campaigns, improving conversion rates.

Visualization tools like Tableau and Power BI were used to create interactive dashboards, facilitating real-time monitoring of key performance indicators (KPIs) for supply chain managers and marketing teams.

Key Outcomes and Business Impact

The big data analytics case study revealed measurable improvements across multiple dimensions:

Inventory Optimization

By refining demand forecasts, the company reduced inventory holding costs by approximately 15%, minimizing waste and stockouts simultaneously. The ability to anticipate demand fluctuations allowed for more agile procurement and distribution strategies.

Enhanced Customer Engagement

Personalized marketing campaigns, driven by data insights, resulted in a 20% increase in customer retention and a 12% uplift in average order value. The segmentation approach enabled the company to tailor promotions, offers, and communications to specific customer groups, improving relevance and satisfaction.

Supply Chain Efficiency

Real-time analytics facilitated quicker response to supplier delays and logistical disruptions, reducing lead times by 10%. This agility contributed to a smoother supply chain, ensuring product availability aligned with customer demand.

Challenges Encountered in the Big Data Analytics Journey

Despite the successes, the project faced several obstacles typical of big data analytics initiatives:

- **Data Privacy and Security:** Managing sensitive customer information necessitated stringent compliance with data protection regulations such as GDPR, requiring investment in secure data governance frameworks.
- **Talent Shortage:** The organization struggled to recruit and retain skilled data scientists and engineers proficient in big data technologies and machine learning.
- **Integration Complexity:** Merging legacy systems with modern big data platforms demanded significant IT infrastructure upgrades and posed interoperability challenges.

These challenges underscored the importance of strategic planning and cross-functional collaboration for successful big data adoption.

Comparative Insights: Big Data Analytics Versus Traditional Analytics

The case study highlights stark differences between big data analytics and traditional analytical approaches. Traditional analytics often rely on smaller, structured datasets with static reports generated on periodic schedules. In contrast, big data analytics leverages vast datasets encompassing both structured and unstructured data, processed in near real-time, enabling dynamic decision-making.

For the retail company, traditional forecasting methods had accuracy limitations due to a narrower data scope. Big data analytics expanded this scope dramatically, integrating external factors and customer behavior insights, thus enhancing model robustness.

The Future Trajectory of Big Data Analytics in Retail

This case study exemplifies how big data analytics is becoming indispensable in retail, not only for operational efficiency but also for strategic differentiation. Emerging technologies such as artificial intelligence (AI), Internet of Things (IoT), and edge computing are set to amplify analytics capabilities, providing even richer datasets and faster insights.

Retailers are increasingly exploring predictive analytics driven by AI to anticipate trends and personalize experiences at scale. Moreover, ethical considerations and transparent data usage practices are gaining prominence, shaping how big data initiatives evolve.

The continual refinement of analytics models and expansion of data ecosystems will likely dictate competitive positioning in the retail landscape. Companies that invest in robust big data infrastructures, skilled personnel, and agile processes stand to benefit most from this transformative approach.

In summary, this big data analytics case study demonstrates the tangible benefits and complexities involved in harnessing vast, diverse datasets to optimize business performance. It provides a valuable

reference point for organizations seeking to embark on or enhance their big data journeys, emphasizing the blend of technology, talent, and strategy required to succeed.

Big Data Analytics Case Study

Find other PDF articles:

<https://espanol.centerforautism.com/archive-th-104/pdf?ID=YZI49-3484&title=john-saul-in-the-dark-of-the-night.pdf>

big data analytics case study: Big Data Analytics for Business Intelligence N. Ayyanathan , Gufran Ahmad Ansari, Venkatesan Selvam, To introduce the concepts of Big data Analytics for business intelligence and predictive modeling for SMART tourism product design in the Indian tourism industry. Quantitative literature survey of the contemporary research topics and application of technologies in SMART tourism analytics. To apply the Big Data analytics and Business Intelligence concepts in the Indian tourism industry and discuss the related case studies covering various subtopics of exclusive destination branding and Market intelligence for knowledge discovery. To evolve Big Data strategy for the specific tourism product design and respective data extraction, transformation, and loading data in the Business Intelligence and data mining tools. To create attractive dashboards for SMART tourism application using storyboarding and Human-Computer Interaction techniques. Visualization techniques for descriptive data analytics and business insights. Intelligent Decision support system for Tourism destination choice.

big data analytics case study: Big Data Analytics: Systems, Algorithms, Applications C.S.R. Prabhu, Aneesh Sreevallabh Chivukula, Aditya Mogadala, Rohit Ghosh, L.M. Jenila Livingston, 2019-10-14 This book provides a comprehensive survey of techniques, technologies and applications of Big Data and its analysis. The Big Data phenomenon is increasingly impacting all sectors of business and industry, producing an emerging new information ecosystem. On the applications front, the book offers detailed descriptions of various application areas for Big Data Analytics in the important domains of Social Semantic Web Mining, Banking and Financial Services, Capital Markets, Insurance, Advertisement, Recommendation Systems, Bio-Informatics, the IoT and Fog Computing, before delving into issues of security and privacy. With regard to machine learning techniques, the book presents all the standard algorithms for learning – including supervised, semi-supervised and unsupervised techniques such as clustering and reinforcement learning techniques to perform collective Deep Learning. Multi-layered and nonlinear learning for Big Data are also covered. In turn, the book highlights real-life case studies on successful implementations of Big Data Analytics at large IT companies such as Google, Facebook, LinkedIn and Microsoft. Multi-sectorial case studies on domain-based companies such as Deutsche Bank, the power provider Opower, Delta Airlines and a Chinese City Transportation application represent a valuable addition. Given its comprehensive coverage of Big Data Analytics, the book offers a unique resource for undergraduate and graduate students, researchers, educators and IT professionals alike.

big data analytics case study: Research Practitioner's Handbook on Big Data Analytics S. Sasikala, D. Renuka Devi, 2023-05-04 This new volume addresses the growing interest in and use of big data analytics in many industries and in many research fields around the globe; it is a comprehensive resource on the core concepts of big data analytics and the tools, techniques, and methodologies. The book gives the why and the how of big data analytics in an organized and straightforward manner, using both theoretical and practical approaches. The book's authors have organized the contents in a systematic manner, starting with an introduction and overview of big

data analytics and then delving into pre-processing methods, feature selection methods and algorithms, big data streams, and big data classification. Such terms and methods as swarm intelligence, data mining, the bat algorithm and genetic algorithms, big data streams, and many more are discussed. The authors explain how deep learning and machine learning along with other methods and tools are applied in big data analytics. The last section of the book presents a selection of illustrative case studies that show examples of the use of data analytics in industries such as health care, business, education, and social media.

big data analytics case study: *Big Data Analytics* Ümit Demirbaga, Gagangeet Singh Aujla, Anish Jindal, Oğuzhan Kalyon, 2024-05-07 This book introduces readers to big data analytics. It covers the background to and the concepts of big data, big data analytics, and cloud computing, along with the process of setting up, configuring, and getting familiar with the big data analytics working environments in the first two chapters. The third chapter provides comprehensive information on big data processing systems - from installing these systems to implementing real-world data applications, along with the necessary codes. The next chapter dives into the details of big data storage technologies, including their types, essentiality, durability, and availability, and reveals their differences in their properties. The fifth and sixth chapters guide the reader through understanding, configuring, and performing the monitoring and debugging of big data systems and present the available commercial and open-source tools for this purpose. Chapter seven gives information about a trending machine learning, Bayesian network: a probabilistic graphical model, by presenting a real-world probabilistic application to understand causal, complex, and hidden relationships for diagnosis and forecasting in a scalable manner for big data. Special sections throughout the eighth chapter present different case studies and applications to help the readers to develop their big data analytics skills using various big data analytics frameworks. The book will be of interest to business executives and IT managers as well as university students and their course leaders, in fact all those who want to get involved in the big data world.

big data analytics case study: *Big Data Analytics* Ulrich Matter, 2023-09-04 Successfully navigating the data-driven economy presupposes a certain understanding of the technologies and methods to gain insights from Big Data. This book aims to help data science practitioners to successfully manage the transition to Big Data. Building on familiar content from applied econometrics and business analytics, this book introduces the reader to the basic concepts of Big Data Analytics. The focus of the book is on how to productively apply econometric and machine learning techniques with large, complex data sets, as well as on all the steps involved before analysing the data (data storage, data import, data preparation). The book combines conceptual and theoretical material with the practical application of the concepts using R and SQL. The reader will thus acquire the skills to analyse large data sets, both locally and in the cloud. Various code examples and tutorials, focused on empirical economic and business research, illustrate practical techniques to handle and analyse Big Data. Key Features: - Includes many code examples in R and SQL, with R/SQL scripts freely provided online. - Extensive use of real datasets from empirical economic research and business analytics, with data files freely provided online. - Leads students and practitioners to think critically about where the bottlenecks are in practical data analysis tasks with large data sets, and how to address them. The book is a valuable resource for data science practitioners, graduate students and researchers who aim to gain insights from big data in the context of research questions in business, economics, and the social sciences.

big data analytics case study: *Big Data Analytics in the Insurance Market* Kiran Sood, Balamurugan Baluswamy, Simon Grima, Pierpaolo Marano, 2022-07-18 Big Data Analytics in the Insurance Market is an industry-specific guide to creating operational effectiveness, managing risk, improving financials, and retaining customers. A must for people seeking to broaden their knowledge of big data concepts and their real-world applications, particularly in the field of insurance.

big data analytics case study: *Big Data Analytics using Computational Intelligence Approaches* Akram Pasha, Syed Ziaur Rahman, 2024-11-21 This book offers an in-depth analysis of

Big Data Analytics, merging the fundamentals of data handling with state-of-the-art computational intelligence methodologies. It presents a comprehensive overview of key principles, including data storage, visualization, and algorithmic strategies, as well.

big data analytics case study: *Big Data Analytics with Java* Rajat Mehta, 2017-07-31 Learn the basics of analytics on big data using Java, machine learning and other big data tools About This Book Acquire real-world set of tools for building enterprise level data science applications Surpasses the barrier of other languages in data science and learn create useful object-oriented codes Extensive use of Java compliant big data tools like apache spark, Hadoop, etc. Who This Book Is For This book is for Java developers who are looking to perform data analysis in production environment. Those who wish to implement data analysis in their Big data applications will find this book helpful. What You Will Learn Start from simple analytic tasks on big data Get into more complex tasks with predictive analytics on big data using machine learning Learn real time analytic tasks Understand the concepts with examples and case studies Prepare and refine data for analysis Create charts in order to understand the data See various real-world datasets In Detail This book covers case studies such as sentiment analysis on a tweet dataset, recommendations on a movielens dataset, customer segmentation on an ecommerce dataset, and graph analysis on actual flights dataset. This book is an end-to-end guide to implement analytics on big data with Java. Java is the de facto language for major big data environments, including Hadoop. This book will teach you how to perform analytics on big data with production-friendly Java. This book basically divided into two sections. The first part is an introduction that will help the readers get acquainted with big data environments, whereas the second part will contain a hardcore discussion on all the concepts in analytics on big data. It will take you from data analysis and data visualization to the core concepts and advantages of machine learning, real-life usage of regression and classification using Naive Bayes, a deep discussion on the concepts of clustering, and a review of simple neural networks on big data using deepLearning4j or plain Java Spark code. This book is a must-have book for Java developers who want to start learning big data analytics and want to use it in the real world. Style and approach The approach of book is to deliver practical learning modules in manageable content. Each chapter is a self-contained unit of a concept in big data analytics. Book will step by step builds the competency in the area of big data analytics. Examples using real world case studies to give ideas of real applications and how to use the techniques mentioned. The examples and case studies will be shown using both theory and code.

big data analytics case study: *Big Data Analytics and Intelligence* Poonam Tanwar, Vishal Jain, Chuan-Ming Liu, Vishal Goyal, 2020-09-30 Big Data Analytics and Intelligence is essential reading for researchers and experts working in the fields of health care, data science, analytics, the internet of things, and information retrieval.

big data analytics case study: *Too Big to Ignore* Phil Simon, 2015-11-02 Residents in Boston, Massachusetts are automatically reporting potholes and road hazards via their smartphones. Progressive Insurance tracks real-time customer driving patterns and uses that information to offer rates truly commensurate with individual safety. Google accurately predicts local flu outbreaks based upon thousands of user search queries. Amazon provides remarkably insightful, relevant, and timely product recommendations to its hundreds of millions of customers. Quantcast lets companies target precise audiences and key demographics throughout the Web. NASA runs contests via gamification site TopCoder, awarding prizes to those with the most innovative and cost-effective solutions to its problems. Explorys offers penetrating and previously unknown insights into healthcare behavior. How do these organizations and municipalities do it? Technology is certainly a big part, but in each case the answer lies deeper than that. Individuals at these organizations have realized that they don't have to be Nate Silver to reap massive benefits from today's new and emerging types of data. And each of these organizations has embraced Big Data, allowing them to make astute and otherwise impossible observations, actions, and predictions. It's time to start thinking big. In *Too Big to Ignore*, recognized technology expert and award-winning author Phil Simon explores an unassailably important trend: Big Data, the massive amounts, new types, and multifaceted sources of information streaming at us faster than ever. Never before have we seen

data with the volume, velocity, and variety of today. Big Data is no temporary blip of fad. In fact, it is only going to intensify in the coming years, and its ramifications for the future of business are impossible to overstate. Too Big to Ignore explains why Big Data is a big deal. Simon provides commonsense, jargon-free advice for people and organizations looking to understand and leverage Big Data. Rife with case studies, examples, analysis, and quotes from real-world Big Data practitioners, the book is required reading for chief executives, company owners, industry leaders, and business professionals.

big data analytics case study: Supply Chain Management Strategies and Risk Assessment in Retail Environments Kumar, Akhilesh, Saurav, Swapnil, 2017-12-15 The proper understanding and managing of project risks and uncertainties is crucial to any organization. It is paramount that all phases of project development and execution are monitored to avoid poor project results from meager economics, overspending, and reputation. Supply Chain Management Strategies and Risk Assessment in Retail Environments is a comprehensive reference source for the latest scholarly material on effectively managing risk factors and implementing the latest supply management strategies in retail environments. Featuring coverage on relevant topics such as omni-channel retail, green supply chain, and customer loyalty, this book is geared toward academicians, researchers, and students seeking current research on the challenges and opportunities available in the realm of retail and the flow of materials, information, and finances between companies and consumers.

big data analytics case study: Handbook of Research on Organizational Transformations through Big Data Analytics Tavana, Madjid, Puranam, Kartikeya, 2014-11-30 Big data analytics utilizes a wide range of software and analytical tools to provide immediate, relevant information for efficient decision-making. Companies are recognizing the immense potential of BDA, but ensuring the data is appropriate and error-free is the largest hurdle in implementing BDA applications. The Handbook of Research on Organizational Transformations through Big Data Analytics not only catalogues the existing platforms and technologies, it explores new trends within the field of big data analytics (BDA). Containing new and existing research materials and insights on the various approaches to BDA; this publication is intended for researchers, IT professionals, and CIOs interested in the best ways to implement BDA applications and technologies.

big data analytics case study: Advances in Information and Communication Networks Kohei Arai, Supriya Kapoor, Rahul Bhatia, 2018-12-05 The book, gathering the proceedings of the Future of Information and Communication Conference (FICC) 2018, is a remarkable collection of chapters covering a wide range of topics in areas of information and communication technologies and their applications to the real world. It includes 104 papers and posters by pioneering academic researchers, scientists, industrial engineers, and students from all around the world, which contribute to our understanding of relevant trends of current research on communication, data science, ambient intelligence, networking, computing, security and Internet of Things. This book collects state of the art chapters on all aspects of information science and communication technologies, from classical to intelligent, and covers both theory and applications of the latest technologies and methodologies. Presenting state-of-the-art intelligent methods and techniques for solving real-world problems along with a vision of the future research, this book is an interesting and useful resource.

big data analytics case study: Digital Technology and Changing Roles in Managerial and Financial Accounting Allam Hamdan, Bahaaeddin Alareeni, Reem Khamis, 2024-01-29 Digital Technology and Changing Roles in Managerial and Financial Accounting explores the profound impact of digital technology on the accounting profession.

big data analytics case study: Applications of Big Data Analytics Mohammed M. Alani, Hissam Tawfik, Mohammed Saeed, Obinna Anya, 2018-07-23 This timely text/reference reviews the state of the art of big data analytics, with a particular focus on practical applications. An authoritative selection of leading international researchers present detailed analyses of existing trends for storing and analyzing big data, together with valuable insights into the challenges

inherent in current approaches and systems. This is further supported by real-world examples drawn from a broad range of application areas, including healthcare, education, and disaster management. The text also covers, typically from an application-oriented perspective, advances in data science in such areas as big data collection, searching, analysis, and knowledge discovery. Topics and features: Discusses a model for data traffic aggregation in 5G cellular networks, and a novel scheme for resource allocation in 5G networks with network slicing Explores methods that use big data in the assessment of flood risks, and apply neural networks techniques to monitor the safety of nuclear power plants Describes a system which leverages big data analytics and the Internet of Things in the application of drones to aid victims in disaster scenarios Proposes a novel deep learning-based health data analytics application for sleep apnea detection, and a novel pathway for diagnostic models of headache disorders Reviews techniques for educational data mining and learning analytics, and introduces a scalable MapReduce graph partitioning approach for high degree vertices Presents a multivariate and dynamic data representation model for the visualization of healthcare data, and big data analytics methods for software reliability assessment This practically-focused volume is an invaluable resource for all researchers, academics, data scientists and business professionals involved in the planning, designing, and implementation of big data analytics projects. Dr. Mohammed M. Alani is an Associate Professor in Computer Engineering and currently is the Provost at Al Khawarizmi International College, Abu Dhabi, UAE. Dr. Hissam Tawfik is a Professor of Computer Science in the School of Computing, Creative Technologies & Engineering at Leeds Beckett University, UK. Dr. Mohammed Saeed is a Professor in Computing and currently is the Vice President for Academic Affairs and Research at the University of Modern Sciences, Dubai, UAE. Dr. Obinna Anya is a Research Staff Member at IBM Research - Almaden, San Jose, CA, USA.

big data analytics case study: New Technology in Education and Training Jon-Chao Hong, 2025-07-22 This book presents selected papers from the 6th International Conference on Advances in Education and Information Technology (AEIT 2025), held in Fukuoka, Japan, from January 10-12, 2025. With a worldwide increase in the development of new technology such as artificial intelligence (AI) and extended reality to enhance learning in school and industry settings, there is a progressive need to study the implementation of new technology in education and training. Of global concern in this area include issues such as teaching approaches, classroom management, and the evaluation of learning effectiveness. This book examines these topics and serve as a useful resource for beginner educators, academics, entrepreneurs, and professionals who are working in the field of implementing new technology in education and training.

big data analytics case study: Society 5.0: Smart Future Towards Enhancing the Quality of Society K. G. Srinivasa, G. M. Siddesh, S. R. Manisekhar, 2022-05-21 The book discusses Society 5.0 which fills the gap between cyber and physical space by providing a balanced environment between economic and social needs. The book is divided into two parts; part A focuses on various concepts related to Society 5.0 such as cyber space, physical space, information management and digital transformation. Part B discusses various integrated fields in Society 5.0, such as super-smart healthcare system, super-smart hospitality system, smart building, and transport management system. It also illustrates the concepts of big data, real-time analytics for smart Society 5.0 with an insight of real-time case studies.

big data analytics case study: Handbook of Research on Strategic Leadership in the Fourth Industrial Revolution Zeki Simsek, Ciaran Heavey, Brian C. Fox, 2024-07-05 This pioneering Handbook surveys the research landscape of strategic leadership in what is referred to as the 'Fourth Industrial Revolution': a fusion of technologies and systems which blurs the boundaries between the digital, physical and biological spheres.

big data analytics case study: Computational Intelligence Applications in Business Intelligence and Big Data Analytics Vijayan Sugumaran, Arun Kumar Sangaiah, Arunkumar Thangavelu, 2017-06-26 There are a number of books on computational intelligence (CI), but they tend to cover a broad range of CI paradigms and algorithms rather than provide an in-depth

exploration in learning and adaptive mechanisms. This book sets its focus on CI based architectures, modeling, case studies and applications in big data analytics, and business intelligence. The intended audiences of this book are scientists, professionals, researchers, and academicians who deal with the new challenges and advances in the specific areas mentioned above. Designers and developers of applications in these areas can learn from other experts and colleagues through this book.

big data analytics case study: Artificial Intelligence and Big Data Prof. Rutuja Ganesh More , Prof. Swayam Shashank Shah, Prof. Prasad Thakordas Shaha , Prof. Alka S. Malewar , 2025-08-30 Artificial Intelligence and Big Data explores the convergence of intelligent algorithms with large-scale data analytics, highlighting their transformative role in industries, healthcare, finance, and governance. The book examines machine learning, deep learning, and data-driven decision-making, providing insights into emerging applications, challenges, and ethical considerations shaping the future of technology-driven innovation.

Related to big data analytics case study

BIG | Bjarke Ingels Group BIG has grown organically over the last two decades from a founder, to a family, to a force of 700. Our latest transformation is the BIG LEAP: Bjarke Ingels Group of Landscape, Engineering,

BIG | Bjarke Ingels Group BIG has grown organically over the last two decades from a founder, to a family, to a force of 700. Our latest transformation is the BIG LEAP: Bjarke Ingels Group of Landscape, Engineering,

BIG HQ | BIG | Bjarke Ingels Group Our latest transformation is the BIG LEAP: Bjarke Ingels Group of Landscape, Engineering, Architecture, Planning and Products. A plethora of in-house perspectives allows us to see what

Bjarke Ingels Group - BIG BIG has grown organically over the last two decades from a founder, to a family, to a force of 700. Our latest transformation is the BIG LEAP: Bjarke Ingels Group of Landscape, Engineering,

The Mountain | BIG | Bjarke Ingels Group The Mountain is a hybrid combining the splendors of a suburban lifestyle: a house with a big garden where children can play, with the metropolitan qualities of a penthouse view and a

Freedom Plaza | BIG | Bjarke Ingels Group Freedom Plaza will extend BIG's contribution to New York City's waterfront, alongside adjacent coastal projects that include the East Side Coastal Resiliency project, the Battery Park City

Jinji Lake Pavilion | BIG | Bjarke Ingels Group Located in the town of Gelephu in Southern Bhutan, the 1000+ km2 masterplan titled 'Mindfulness City' by BIG, Arup, and Cistri is informed by Bhutanese culture, the principles of Gross National

University of Kansas School of Architecture and Design | BIG From their exceptionally comprehensive response to our submission call and throughout the design process, BIG's willingness to both listen to us and push us has conceived a project that

WeGrow NYC | BIG | Bjarke Ingels Group BIG has grown organically over the last two decades from a founder, to a family, to a force of 700. Our latest transformation is the BIG LEAP: Bjarke Ingels Group of Landscape, Engineering,

CityWave | BIG | Bjarke Ingels Group The building embodies BIG's notion of hedonistic sustainability while contributing to Copenhagen's goal of becoming one of the world's first carbon-neutral cities

BIG | Bjarke Ingels Group BIG has grown organically over the last two decades from a founder, to a family, to a force of 700. Our latest transformation is the BIG LEAP: Bjarke Ingels Group of Landscape, Engineering,

BIG | Bjarke Ingels Group BIG has grown organically over the last two decades from a founder, to a family, to a force of 700. Our latest transformation is the BIG LEAP: Bjarke Ingels Group of Landscape, Engineering,

BIG HQ | BIG | Bjarke Ingels Group Our latest transformation is the BIG LEAP: Bjarke Ingels Group of Landscape, Engineering, Architecture, Planning and Products. A plethora of in-house perspectives allows us to see what

Bjarke Ingels Group - BIG BIG has grown organically over the last two decades from a founder, to a family, to a force of 700. Our latest transformation is the BIG LEAP: Bjarke Ingels Group of Landscape, Engineering,

The Mountain | BIG | Bjarke Ingels Group The Mountain is a hybrid combining the splendors of a suburban lifestyle: a house with a big garden where children can play, with the metropolitan qualities of a penthouse view and a

Freedom Plaza | BIG | Bjarke Ingels Group Freedom Plaza will extend BIG's contribution to New York City's waterfront, alongside adjacent coastal projects that include the East Side Coastal Resiliency project, the Battery Park City

Jinji Lake Pavilion | BIG | Bjarke Ingels Group Located in the town of Gelephu in Southern Bhutan, the 1000+ km2 masterplan titled 'Mindfulness City' by BIG, Arup, and Cistri is informed by Bhutanese culture, the principles of Gross National

University of Kansas School of Architecture and Design | BIG From their exceptionally comprehensive response to our submission call and throughout the design process, BIG's willingness to both listen to us and push us has conceived a project that

WeGrow NYC | BIG | Bjarke Ingels Group BIG has grown organically over the last two decades from a founder, to a family, to a force of 700. Our latest transformation is the BIG LEAP: Bjarke Ingels Group of Landscape, Engineering,

CityWave | BIG | Bjarke Ingels Group The building embodies BIG's notion of hedonistic sustainability while contributing to Copenhagen's goal of becoming one of the world's first carbon-neutral cities

BIG | Bjarke Ingels Group BIG has grown organically over the last two decades from a founder, to a family, to a force of 700. Our latest transformation is the BIG LEAP: Bjarke Ingels Group of Landscape, Engineering,

BIG | Bjarke Ingels Group BIG has grown organically over the last two decades from a founder, to a family, to a force of 700. Our latest transformation is the BIG LEAP: Bjarke Ingels Group of Landscape, Engineering,

BIG HQ | BIG | Bjarke Ingels Group Our latest transformation is the BIG LEAP: Bjarke Ingels Group of Landscape, Engineering, Architecture, Planning and Products. A plethora of in-house perspectives allows us to see

Bjarke Ingels Group - BIG BIG has grown organically over the last two decades from a founder, to a family, to a force of 700. Our latest transformation is the BIG LEAP: Bjarke Ingels Group of Landscape, Engineering,

The Mountain | BIG | Bjarke Ingels Group The Mountain is a hybrid combining the splendors of a suburban lifestyle: a house with a big garden where children can play, with the metropolitan qualities of a penthouse view and a

Freedom Plaza | BIG | Bjarke Ingels Group Freedom Plaza will extend BIG's contribution to New York City's waterfront, alongside adjacent coastal projects that include the East Side Coastal Resiliency project, the Battery Park City

Jinji Lake Pavilion | BIG | Bjarke Ingels Group Located in the town of Gelephu in Southern Bhutan, the 1000+ km2 masterplan titled 'Mindfulness City' by BIG, Arup, and Cistri is informed by Bhutanese culture, the principles of Gross

University of Kansas School of Architecture and Design | BIG From their exceptionally comprehensive response to our submission call and throughout the design process, BIG's willingness to both listen to us and push us has conceived a project that

WeGrow NYC | BIG | Bjarke Ingels Group BIG has grown organically over the last two decades from a founder, to a family, to a force of 700. Our latest transformation is the BIG LEAP: Bjarke Ingels Group of Landscape, Engineering,

CityWave | BIG | Bjarke Ingels Group The building embodies BIG's notion of hedonistic sustainability while contributing to Copenhagen's goal of becoming one of the world's first carbon-neutral cities

BIG | Bjarke Ingels Group BIG has grown organically over the last two decades from a founder, to a family, to a force of 700. Our latest transformation is the BIG LEAP: Bjarke Ingels Group of Landscape, Engineering,

BIG | Bjarke Ingels Group BIG has grown organically over the last two decades from a founder, to a family, to a force of 700. Our latest transformation is the BIG LEAP: Bjarke Ingels Group of Landscape, Engineering,

BIG HQ | BIG | Bjarke Ingels Group Our latest transformation is the BIG LEAP: Bjarke Ingels Group of Landscape, Engineering, Architecture, Planning and Products. A plethora of in-house perspectives allows us to see

Bjarke Ingels Group - BIG BIG has grown organically over the last two decades from a founder, to a family, to a force of 700. Our latest transformation is the BIG LEAP: Bjarke Ingels Group of Landscape, Engineering,

The Mountain | BIG | Bjarke Ingels Group The Mountain is a hybrid combining the splendors of a suburban lifestyle: a house with a big garden where children can play, with the metropolitan qualities of a penthouse view and a

Freedom Plaza | BIG | Bjarke Ingels Group Freedom Plaza will extend BIG's contribution to New York City's waterfront, alongside adjacent coastal projects that include the East Side Coastal Resiliency project, the Battery Park City

Jinji Lake Pavilion | BIG | Bjarke Ingels Group Located in the town of Gelephu in Southern Bhutan, the 1000+ km2 masterplan titled 'Mindfulness City' by BIG, Arup, and Cistri is informed by Bhutanese culture, the principles of Gross

University of Kansas School of Architecture and Design | BIG From their exceptionally comprehensive response to our submission call and throughout the design process, BIG's willingness to both listen to us and push us has conceived a project that

WeGrow NYC | BIG | Bjarke Ingels Group BIG has grown organically over the last two decades from a founder, to a family, to a force of 700. Our latest transformation is the BIG LEAP: Bjarke Ingels Group of Landscape, Engineering,

CityWave | BIG | Bjarke Ingels Group The building embodies BIG's notion of hedonistic sustainability while contributing to Copenhagen's goal of becoming one of the world's first carbon-neutral cities

BIG | Bjarke Ingels Group BIG has grown organically over the last two decades from a founder, to a family, to a force of 700. Our latest transformation is the BIG LEAP: Bjarke Ingels Group of Landscape, Engineering,

BIG | Bjarke Ingels Group BIG has grown organically over the last two decades from a founder, to a family, to a force of 700. Our latest transformation is the BIG LEAP: Bjarke Ingels Group of Landscape, Engineering,

BIG HQ | BIG | Bjarke Ingels Group Our latest transformation is the BIG LEAP: Bjarke Ingels Group of Landscape, Engineering, Architecture, Planning and Products. A plethora of in-house perspectives allows us to see

Bjarke Ingels Group - BIG BIG has grown organically over the last two decades from a founder, to a family, to a force of 700. Our latest transformation is the BIG LEAP: Bjarke Ingels Group of Landscape, Engineering,

The Mountain | BIG | Bjarke Ingels Group The Mountain is a hybrid combining the splendors of a suburban lifestyle: a house with a big garden where children can play, with the metropolitan qualities of a penthouse view and a

Freedom Plaza | BIG | Bjarke Ingels Group Freedom Plaza will extend BIG's contribution to New York City's waterfront, alongside adjacent coastal projects that include the East Side Coastal Resiliency project, the Battery Park City

Jinji Lake Pavilion | BIG | Bjarke Ingels Group Located in the town of Gelephu in Southern Bhutan, the 1000+ km2 masterplan titled 'Mindfulness City' by BIG, Arup, and Cistri is informed by Bhutanese culture, the principles of Gross

University of Kansas School of Architecture and Design | BIG From their exceptionally comprehensive response to our submission call and throughout the design process, BIG's willingness to both listen to us and push us has conceived a project that

WeGrow NYC | BIG | Bjarke Ingels Group BIG has grown organically over the last two decades from a founder, to a family, to a force of 700. Our latest transformation is the BIG LEAP: Bjarke Ingels Group of Landscape, Engineering,

CityWave | BIG | Bjarke Ingels Group The building embodies BIG's notion of hedonistic sustainability while contributing to Copenhagen's goal of becoming one of the world's first carbon-neutral cities

Related to big data analytics case study

Big Data Analytics Study for Media and Entertainment Industry - A Case Study on Becoming More Data-Driven in the Decision-Making Process (Business Wire7y) LONDON--(BUSINESS WIRE)--Quantzig, a global analytics solutions provider, has announced the completion of their latest big data analytics study on the media and entertainment industry. A global media

Big Data Analytics Study for Media and Entertainment Industry - A Case Study on Becoming More Data-Driven in the Decision-Making Process (Business Wire7y) LONDON--(BUSINESS WIRE)--Quantzig, a global analytics solutions provider, has announced the completion of their latest big data analytics study on the media and entertainment industry. A global media

Big data adoption surges across industries but governance gaps persist (Devdiscourse7d) Real-time data processing has become essential as organizations demand faster insights. Integration with artificial

Big data adoption surges across industries but governance gaps persist (Devdiscourse7d) Real-time data processing has become essential as organizations demand faster insights. Integration with artificial

Big Data case study: What forensic accountants need to know (JournalofAccountancy10y) Editor's note: The following case study is excerpted from The 2014 AICPA Survey on International Trends in Forensic and Valuation Services. Although the buzz about Big Data has certainly been growing,

Big Data case study: What forensic accountants need to know (JournalofAccountancy10y) Editor's note: The following case study is excerpted from The 2014 AICPA Survey on International Trends in Forensic and Valuation Services. Although the buzz about Big Data has certainly been growing,

IoT + Big Data Analytics = Operations Intelligence: An equation that draws a better picture (Digital Journal6y) In the equation $\text{IoT} + X = \text{Operations Intelligence}$, what role does big data analytics play as the X factor? In the equation $\text{IoT} + X = \text{Operations Intelligence}$, what role does big data analytics play as

IoT + Big Data Analytics = Operations Intelligence: An equation that draws a better picture (Digital Journal6y) In the equation $\text{IoT} + X = \text{Operations Intelligence}$, what role does big data analytics play as the X factor? In the equation $\text{IoT} + X = \text{Operations Intelligence}$, what role does big data analytics play as

Back to Home: <https://espanol.centerforautism.com>