

Big Data Analytics in Healthcare



Application Of Big Data Analytics In Health Care

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Application Of Big Data Analytics In Health Care:

Research Anthology on Big Data Analytics, Architectures, and Applications Management Association, Information Resources, 2021-09-24 Society is now completely driven by data with many industries relying on data to conduct business or basic functions within the organization With the efficiencies that big data bring to all institutions data is continuously being collected and analyzed However data sets may be too complex for traditional data processing and therefore different strategies must evolve to solve the issue The field of big data works as a valuable tool for many different industries The *Research Anthology on Big Data Analytics Architectures and Applications* is a complete reference source on big data analytics that offers the latest innovative architectures and frameworks and explores a variety of applications within various industries Offering an international perspective the applications discussed within this anthology feature global representation Covering topics such as advertising curricula driven supply chain and smart cities this research anthology is ideal for data scientists data analysts computer engineers software engineers technologists government officials managers CEOs professors graduate students researchers and academicians

Big Data Analytics in Healthcare to Assist Medical Diagnosis Christian Marheine, 2018-07-24 Academic Paper from the year 2018 in the subject Computer Sciences Industry 4 0 grade A 90 100 ODER 1 0 Lund University Informatik course Business Intelligence language English abstract This seminar paper discusses how big data analytics might support healthcare organizations e g hospitals in medical diagnosis The paper proceeds as follows First an overview of big data analytics in healthcare is provided with a focus on medical image analytics Second two large scale image analysis cases are presented to materialize the theory upon which an integrated framework is proposed that illustrates how big data analytics might assist medical diagnosis Third the contemporary challenges of IT adoption in healthcare are discussed and lastly a brief conclusion is drawn

Big Data Analytics for Healthcare Pantea Keikhosrokiani, 2022-05-19 *Big Data Analytics and Medical Information Systems* presents the valuable use of artificial intelligence and big data analytics in healthcare and medical sciences It focuses on theories methods and approaches in which data analytic techniques can be used to examine medical data to provide a meaningful pattern for classification diagnosis treatment and prediction of diseases The book discusses topics such as theories and concepts of the field and how big medical data mining techniques and applications can be applied to classification diagnosis treatment and prediction of diseases In addition it covers social behavioral and medical fake news analytics to prevent medical misinformation and myths It is a valuable resource for graduate students researchers and members of biomedical field who are interested in learning more about analytic tools to support their work Presents theories methods and approaches in which data analytic techniques are used for medical data Brings practical information on how to use big data for classification diagnosis treatment and prediction of diseases Discusses social behavioral and medical fake news analytics for medical information systems

Machine Learning and Analytics in Healthcare Systems Himani Bansal, Balamurugan Balusamy, T. Poongodi, Firoz

Khan KP,2021-06-30 This book provides applications of machine learning in healthcare systems and seeks to close the gap between engineering and medicine It will combine the design and problem solving skills of engineering with health sciences in order to advance healthcare treatment The book will include areas such as diagnosis monitoring and therapy The book will provide real world case studies gives a detailed exploration of applications in healthcare systems offers multiple perspectives on a variety of disciplines while also letting the reader know how to avoid some of the consequences of old methods with data sharing The book can be used as a reference for practitioners researchers and for students at basic and intermediary levels in Computer Science Electronics and Communications *Big Data Analytics in Healthcare* Anand J. Kulkarni,Patrick

Siarry,Pramod Kumar Singh,Ajith Abraham,Mengjie Zhang,Albert Zomaya,Fazle Baki,2019-10-01 This book includes state of the art discussions on various issues and aspects of the implementation testing validation and application of big data in the context of healthcare The concept of big data is revolutionary both from a technological and societal well being standpoint This book provides a comprehensive reference guide for engineers scientists and students studying involved in the development of big data tools in the areas of healthcare and medicine It also features a multifaceted and state of the art literature review on healthcare data its modalities complexities and methodologies along with mathematical formulations The book is divided into two main sections the first of which discusses the challenges and opportunities associated with the implementation of big data in the healthcare sector In turn the second addresses the mathematical modeling of healthcare problems as well as current and potential future big data applications and platforms **Intelligent Systems in Healthcare**

and Disease Identification using Data Science Gururaj H L,Radhika A D,Divya C D,Ravi Kumar V,Yu-Chen Hu,2023-10-10 The health technology has become a hot topic in academic research It employs the theory of social networks into the different levels of the prediction and analysis and has brought new possibilities for the development of technology This book is a descriptive summary of challenges and methods using disease identification with various case studies from diverse authors across the globe One of the new buzzwords in healthcare sector that has become popular over years is health informatics Healthcare professionals must deal with an increasing number of computers and computer programs in their daily work With rapid growth of digital data the role of analytics in healthcare has created a significant impact on healthcare professional s life Improvements in storage data computational power and parallelization has also contributed to uptake this technology This book is intended for use by researchers health informatics professionals academicians and undergraduate and postgraduate students interested in knowing more about health informatics It aims to provide a brief overview about informatics its history and area of practice laws in health informatics challenges and technologies in health informatics application of informatics in various sectors and so on Finally the research avenues in health informatics along with some case studies are discussed **Intelligent Biomedical Technologies and Applications for Healthcare 5.0** Lalit

Garg,Gayatri Mirajkar,Sanjay Misra,Vijay Kumar Chattu,2024-10-17 Intelligent Biomedical Technologies and Applications for

Healthcare 5.0 Volume Sixteen covers artificial health intelligence biomedical image analysis 5G the Internet of Medical Things intelligent healthcare systems and extended health intelligence EHI This volume contains four sections The focus of the first section is health data analytics and applications The second section covers research on information exchange and knowledge sharing The third section is on the Internet of Things IoT and the Internet of Everything IoE based solutions The final section focuses on the implementation assessment adoption and management of healthcare informatics solutions This new volume in the Advances in Ubiquitous Sensing Applications for Healthcare series focuses on innovative methods in the healthcare industry and will be useful for biomedical engineers researchers and students working in interdisciplinary fields of research This volume bridges these newly developing technologies and the medical community in the rapidly developing healthcare world introducing them to modern healthcare advances such as EHI and Smart Healthcare Systems Provides a comprehensive technological review of cutting edge information in the wide domain of Healthcare 5.0 Introduces concepts that combine computational methods network standards and healthcare systems to provide a much improved more affordable experience delivered by healthcare services to its customers Presents innovative solutions utilizing informatics to deal with various healthcare technology issues

Data Science and Big Data Analytics Durgesh Kumar Mishra, Xin-She Yang, Aynur Unal, 2018-08-01 This book presents conjectural advances in big data analysis machine learning and computational intelligence as well as their potential applications in scientific computing It discusses major issues pertaining to big data analysis using computational intelligence techniques and the conjectural elements are supported by simulation and modelling applications to help address real world problems An extensive bibliography is provided at the end of each chapter Further the main content is supplemented by a wealth of figures graphs and tables offering a valuable guide for researchers in the field of big data analytics and computational intelligence

Emerging Technologies in Healthcare Matthew N. O. Sadiku, Rotimi A. K. Jaiyesimi, Joyce B. Idehen, Sarhan M. Musa, 2021-10-05 Health is regarded as one of the global challenges for mankind Healthcare is a complex system that covers processes of diagnosis treatment and prevention of diseases It constitutes a fundamental pillar of the modern society Modern healthcare is technological healthcare Technology is everywhere This book focuses on twenty one emerging technologies in the healthcare industry An emerging technology is one that holds the promise of creating a new economic engine and is trans industrial Emerging technological trends are rapidly transforming businesses in general and healthcare in particular in ways that we find hard to imagine Artificial intelligence AI machine learning robots blockchain cloud computing Internet of things IoT and augmented virtual reality are some of the technologies at the heart of this revolution and are covered in this book The convergence of these technologies is upon us and will have a huge impact on the patient experience

Big Data in Cardiology. Predicting, Preventing and Managing Diseases Bikal Dhungel, 2020-10-28 Master's Thesis from the year 2020 in the subject Health Sciences Health Logistics grade 1.7 Linnaeus University School of Informatics course Information Systems language English abstract This

study was conducted to analyze this process closer focusing on a case of Cardiology Conducting a comprehensive literature review and qualitative expert interviews the impact of big data in the field of Cardiology was explored The result of the study shows that big data can play a positive role in three aspects prediction of disease prevention of disease and management of disease Big data enables us to build models that can be used to predict the occurrence of disease Based on this information actions can be taken to prevent the disease Data also helps to manage the disease by offering helpful insights Medical personnel can retrieve the patient data with the help of AI they can make faster decisions allowing them to spend more quality time with the patients and reduce cognitive errors Through the interviews it was understood that even though the positive role of big data has been acknowledged the implementation is still a challenge due to various limitations The challenges lie mainly on technical know how and domain knowledge Further challenges were data security and privacy issues that need to be addressed to mitigate the risks that can be caused by them The examples of big data implementation in various cases like in heart failure prediction or prevention shows a positive picture The overwhelming majority of case studies analyzed in this regard show an optimistic picture Due to growing importance and use of smart devices IoT genomics and the recent developments in the field of ICTs it is expected that big data will not only leave a positive influence on the field of Cardiology it will also change the way medicine is practiced and healthcare is offered The statement Data is the new oil has been broadly acknowledged due to its wide ranging importance Utilizing big data offers a variety of benefits Although the health sector was late in terms of exploiting the benefits of big data currently the adoption is accelerating Healthcare is increasingly becoming an information science and the implementation of electronic medical records EMR and other information systems is growing rapidly The patient data originating from smart devices and other sources like genomic databases are supporting the healthcare sector offering better healthcare delivery and increasing efficiency hence saving costs

Handbook on Intelligent Healthcare Analytics A. Jaya,K. Kalaiselvi,Dinesh Goyal,Dhiya Al-Jumeily,2022-06-01

HANDBOOK OF INTELLIGENT HEALTHCARE ANALYTICS The book explores the various recent tools and techniques used for deriving knowledge from healthcare data analytics for researchers and practitioners The power of healthcare data analytics is being increasingly used in the industry Advanced analytics techniques are used against large data sets to uncover hidden patterns unknown correlations market trends customer preferences and other useful information A Handbook on Intelligent Healthcare Analytics covers both the theory and application of the tools techniques and algorithms for use in big data in healthcare and clinical research It provides the most recent research findings to derive knowledge using big data analytics which helps to analyze huge amounts of real time healthcare data the analysis of which can provide further insights in terms of procedural technical medical and other types of improvements in healthcare In addition the reader will find in this Handbook Innovative hybrid machine learning and deep learning techniques applied in various healthcare data sets as well as various kinds of machine learning algorithms existing such as supervised unsupervised semi supervised reinforcement

learning and guides how readers can implement the Python environment for machine learning An exploration of predictive analytics in healthcare The various challenges for smart healthcare including privacy confidentiality authenticity loss of information attacks etc that create a new burden for providers to maintain compliance with healthcare data security In addition this book also explores various sources of personalized healthcare data and the commercial platforms for healthcare data analytics Audience Healthcare professionals researchers and practitioners who wish to figure out the core concepts of smart healthcare applications and the innovative methods and technologies used in healthcare will all benefit from this book

Edge AI for Industry 5.0 and Healthcare 5.0 Applications Pethuru Raj,B. Sundaravadivazhagan,A. Saleem

Raja,Mohammed M. Alani,2025-04-04 Edge AI is the seamless and spontaneous combination of Edge or Fog computing and AI It enables acquiring real time insights which in turn leads to the realization of real time people centric event driven business critical process aware and knowledge filled software services and applications Edge AI for Industry 5 0 and Healthcare 5 0 Applications looks at the unique contributions of Edge AI for developing solutions for Industry 5 0 and Healthcare 5 0 It explains how Industry 5 0 fine tunes the human machine connection and leverages tiny high performance AI centric processors in IoT edge devices for real time decision making and application processing Focusing on Explainable AI XAI the book discusses The role of XAI in Healthcare 5 0 Best practices challenges and opportunities of applying XAI in healthcare setting How to enhance transparency and trust of XAI in Healthcare 5 0 XAI and its methods in predicting healthcare outcomes Other highlights of the book include 5G communication networks requirements The fusion of IoT AI Edge Cloud and blockchain Trustworthiness of blockchain technology in healthcare 5 0 and Industry 5 0 The future of trust and the potential of blockchain technology By explaining how Edge AI can transform healthcare and industry this book empowers researchers and professionals to envisage and implement sophisticated and smart digital solutions

"Healthcare Start-ups: Revolutionizing the Healthcare Industry" Shameem Anas,2023-09-10 Are you tired of the healthcare industry s endless struggles the constant pain it inflicts on both patients and professionals and the pervasive agitation it creates If you re seeking a groundbreaking solution to revolutionize healthcare look no further Our ebook Healthcare Start ups Revolutionizing the Healthcare Industry is your ultimate guide to transforming this sector for the better Benefits of Reading Our Ebook Pain Relief Discover innovative strategies to alleviate the pain points plaguing the healthcare industry We delve deep into the challenges that healthcare startups face and provide actionable solutions to overcome them Agitation Elimination Say goodbye to the frustration and agitation that often accompany healthcare endeavors Our ebook equips you with the knowledge and insights to navigate the complexities of the healthcare landscape with ease Solutions Galore We don t just highlight the problems we offer concrete solutions Learn how to develop and implement groundbreaking healthcare startups that will shape the future of the industry Expert Guidance Benefit from the wisdom of industry experts who have successfully revolutionized healthcare Our ebook is a compilation of their invaluable insights

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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

Big Data and Health Analytics Katherine Marconi,Harold Lehmann,2014-12-20 This book provides frameworks use cases and examples that illustrate the role of big data and analytics in modern health care including how public health information can inform health delivery Written for health care professionals and executives this book presents the current thinking of academic and industry researchers and leaders from around the world Using non technical language it includes case studies that illustrate the business processes that underlie the use of big data and health analytics to improve health care delivery

Applications of Big Data in Healthcare Ashish Khanna,Deepak Gupta,Nilanjan Dey,2021-03-10 Applications of Big Data in Healthcare Theory and Practice begins with the basics of Big Data analysis and introduces the tools processes and procedures associated with Big Data analytics The book unites healthcare with Big Data analysis and uses the advantages of the latter to solve the problems faced by the former The authors present the challenges faced by the healthcare industry including capturing storing searching sharing and analyzing data This book illustrates the challenges in the applications of Big Data and suggests ways to overcome them with a primary emphasis on data repositories challenges and concepts for data scientists engineers and clinicians The applications of Big Data have grown tremendously within the past few years and its growth can not only be attributed to its competence to

handle large data streams but also to its abilities to find insights from complex noisy heterogeneous longitudinal and voluminous data The main objectives of Big Data in the healthcare sector is to come up with ways to provide personalized healthcare to patients by taking into account the enormous amounts of already existing data Provides case studies that illustrate the business processes underlying the use of big data and deep learning health analytics to improve health care delivery Supplies readers with a foundation for further specialized study in clinical analysis and data management Includes links to websites videos articles and other online content to expand and support the primary learning objectives for each major section of the book

Big Barriers to Big Data Analytics in Medicare Eugene Roberts,2017-03-15 Essay from the year 2017 in the subject Sociology Medicine and Health language English abstract The Center for Medicare and Medicaid Services CMS manages health care for over one hundred million patients A large majority of these are Medicare members for which the CMS is responsible for administering health care benefits through medical claims data For this population comfortability with their health care physician quality of life cost and longevity are all of concern Indeed Medicare members financial and health concerns burden not only the members themselves but families and taxpayers as well The recent emergence of big data analytics BDA has provided solutions to issues like these in many other patient populations The CMS has recently conducted some internal BDA and has shown efficacy in fighting fraud and lowering hospital readmissions However the agency cannot possibly conduct research to addresses all Medicare members needs in such an encapsulated manner Other government agencies that house similar data provide easy access and even some analytical discovery tools to outside researchers in varying settings The CMS has partners to help manage data and its availability to researchers however large barriers to BDA in Medicare still exist In addition to conventional challenges with big data characteristics the CMS faces regulatory and legal hurdles in health care policy and data privacy Additionally extremely rigorous application processes and prohibitively high costs limit researchers access to Medicare data for discovery and early stage research purposes These barriers need to be overcome to expand the CMS s success in other areas to addressing all the health needs of Medicare members

Analytics in Healthcare Christo El Morr,Hossam Ali-Hassan,2019-01-21 This book offers a practical introduction to healthcare analytics that does not require a background in data science or statistics It presents the basics of data analytics and tools and includes multiple examples of their applications in the field The book also identifies practical challenges that fuel the need for analytics in healthcare as well as the solutions to address these problems In the healthcare field professionals have access to vast amount of data in the form of staff records electronic patient record clinical findings diagnosis prescription drug medical imaging procedure mobile health resources available etc Managing the data and analyzing it to properly understand it and use it to make well informed decisions can be a challenge for managers and health care professionals A new generation of applications sometimes referred to as end user analytics or self serve analytics are specifically designed for non technical users such as managers and business professionals The ability to use these

increasingly accessible tools with the abundant data requires a basic understanding of the core concepts of data analytics and interpretation of outcomes This book is a resource for such individuals to demystify and learn the basics of data management and analytics for healthcare while also looking towards future directions in the field *Data Science for Healthcare* Sergio Consoli, Diego Reforgiato Recupero, Milan Petković, 2019-02-23 This book seeks to promote the exploitation of data science in healthcare systems The focus is on advancing the automated analytical methods used to extract new knowledge from data for healthcare applications To do so the book draws on several interrelated disciplines including machine learning big data analytics statistics pattern recognition computer vision and Semantic Web technologies and focuses on their direct application to healthcare Building on three tutorial like chapters on data science in healthcare the following eleven chapters highlight success stories on the application of data science in healthcare where data science and artificial intelligence technologies have proven to be very promising This book is primarily intended for data scientists involved in the healthcare or medical sector By reading this book they will gain essential insights into the modern data science technologies needed to advance innovation for both healthcare businesses and patients A basic grasp of data science is recommended in order to fully benefit from this book 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

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