

Managing Distributed Machine Learning Lifecycle for Healthcare Data in the Cloud

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ABSTRACT

The main objective of this paper is to highlight the research directions and explain the main roles of current Artificial Intelligence (AI)/Machine Learning (ML) frameworks and available cloud infrastructures in building end-to-end ML lifecycle management for healthcare systems and sensitive biomedical data. We identify and explore the versatility of many genuine techniques from distributed computing and current state-of-the-art ML research, such as building *cognition-inspired learning pipelines* and *federated learning (FL) ecosystem*. Additionally, we outline the advantages and highlight the main obstacles of our methodology utilizing contemporary distributed secure ML techniques, such as FL, and tools designed for managing data throughout its lifecycle. For a robust system design, we present key architectural decisions essential for optimal healthcare data management, focusing on security, privacy and interoperability. Finally, we discuss ongoing efforts and future research directions to overcome existing challenges and improve the effectiveness of AI/ML applications in the healthcare domain.

INDEX TERMS Machine Learning, Healthcare, Biomedicine, Data Management, Federated Learning, Cloud, Coded Computation, Distributed Systems

I. INTRODUCTION

TRADITIONAL healthcare, as a mission-critical domain, is in flux for various reasons: Cost and capacity concerns, ageing populations, personalized treatments, and technological advancements that enable speedy pattern analysis. Data analytics and Artificial Intelligence (AI)/Machine Learning (ML) techniques are paving the way for many use cases in medicine that are quite critical today. At the same time, healthcare and biomedical applications are constantly generating increasingly large and diverse datasets. Information can include a variety of data types, spanning from genetic information to Electronic Health Records (EHRs), which can cover details like patient medical records, important physiological measurements, results from labora-

tory tests, inherited disorders, behavioural tendencies, and more. This information can also be gathered from wearable gadgets utilizing headgear (AR and VR technologies) or networks of body sensors, largely constituting time-series biomedical data. The range of modern biomedical applications is already huge and growing each day. AI in healthcare is shown to help transform medical techniques into better disease treatment and prevention, therapy recommendations, and health management that considers various factors such as a patient's genetic, environmental, and usual lifecycle behaviors. In the present era, AI/ML methods are employed for diverse purposes: Foreseeing illnesses in high-risk patients requiring additional support [1], aiding individuals with motor impairments [2], uncovering potential drug combinations

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Raj Rajgopal



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SAA, Managing Distributed Data Michael Killen, 1992 Expert advice on how to build and manage distributed database systems Shows how to determine if SAA can solve distributed database problems how to develop specific policies and practices for managing corporate data and how to efficiently utilize PC image processing and knowledge based databases

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knowledge isn't required but a basic understanding of cloud versus on premises is helpful

Managing Distributed Databases Donald K. Burleson, 1994 This book arms developers and system managers with battle tested strategies and techniques for ensuring that distributed data is available to all clients in a distributed client server environment

Data Distribution Richard Williams, 2018-12-17 Published in 1992 Business information has evolved from typewriter card index decentralized through the era of DP Department and mainframe centralized to present mix with PCs and networks distributed This book demonstrates how data distribution can function in the best interests of organizations through a managed environment It looks at what is needed from the systems professionals to support current methods reporting actual experience defining techniques and examining the opportunities and challenges

Solutions for Networked Databases Dimitris N. Chorafas, Heinrich Steinmann, 2014-05-10 Solutions for Networked Databases How to Move from Heterogeneous Structures to Federated Concepts reviews developments in standards and ad hoc solutions aimed at providing cross database connectivity for networked databases The emphasis is on how to move from heterogeneous structures to federated concepts The advent of the multidatabase is discussed along with schemata dictionaries and protocols Applications with federated databases are also considered Comprised of 18 chapters this book begins with an introduction to database and knowledge bank concepts reliability and availability characteristics and the synergy necessary to create and sustain federated databases Centralized and distributed databases are then compared and the different ways of managing distributed databases are outlined Subsequent chapters focus on the importance of treating the networked database as a corporate resource the use of schemata to solve cross database problems the Information Resource Dictionary System and application programming interface and remote data access A solution to heterogeneous distributed databases the Data Access Integrated Services DAIS is described This monograph is written for specialists in computers and communications

Client-server Architecture Alex Berson, 1992 Describes in detail the much discussed but little understood client server model its architecture components benefits and functions as well as existing products and industry trends and standards It's filled with practical examples and recommendations and emphasizes open systems and standards

Earth System Monitor, 1994

Advances in Production Management Systems. Artificial Intelligence for Sustainable and Resilient Production Systems Alexandre Dolgui, Alain Bernard, David Lemoine, Gregor von Cieminski, David Romero, 2021-09-01 The five volume set IFIP AICT 630 631 632 633 and 634 constitutes the refereed proceedings of the International IFIP WG 5.7 Conference on Advances in Production Management Systems APMS 2021 held in Nantes France in September 2021 The 378 papers presented were carefully reviewed and selected from 529 submissions They discuss artificial intelligence techniques decision aid and new and renewed paradigms for sustainable and resilient production systems at four wall factory and value chain levels The papers are organized in the following topical sections Part I artificial intelligence based optimization techniques for demand driven manufacturing hybrid approaches for production planning and scheduling intelligent systems for manufacturing

planning and control in the industry 4.0 learning and robust decision support systems for agile manufacturing environments low code and model driven engineering for production system meta heuristics and optimization techniques for energy oriented manufacturing systems metaheuristics for production systems modern analytics and new AI based smart techniques for replenishment and production planning under uncertainty system identification for manufacturing control applications and the future of lean thinking and practice Part II digital transformation of SME manufacturers the crucial role of standard digital transformations towards supply chain resiliency engineering of smart product service systems of the future lean and Six Sigma in services healthcare new trends and challenges in reconfigurable flexible or agile production system production management in food supply chains and sustainability in production planning and lot sizing Part III autonomous robots in delivery logistics digital transformation approaches in production management finance driven supply chain gastronomic service system design modern scheduling and applications in industry 4.0 recent advances in sustainable manufacturing regular session green production and circularity concepts regular session improvement models and methods for green and innovative systems regular session supply chain and routing management regular session robotics and human aspects regular session classification and data management methods smart supply chain and production in society 5.0 era and supply chain risk management under coronavirus Part IV AI for resilience in global supply chain networks in the context of pandemic disruptions blockchain in the operations and supply chain management data based services as key enablers for smart products manufacturing and assembly data driven methods for supply chain optimization digital twins based on systems engineering and semantic modeling digital twins in companies first developments and future challenges human centered artificial intelligence in smart manufacturing for the operator 4.0 operations management in engineer to order manufacturing product and asset life cycle management for smart and sustainable manufacturing systems robotics technologies for control smart manufacturing and logistics serious games analytics improving games and learning support smart and sustainable production and supply chains smart methods and techniques for sustainable supply chain management the new digital lean manufacturing paradigm and the role of emerging technologies in disaster relief operations lessons from COVID 19 Part V data driven platforms and applications in production and logistics digital twins and AI for sustainability regular session new approaches for routing problem solving regular session improvement of design and operation of manufacturing systems regular session crossdock and transportation issues regular session maintenance improvement and lifecycle management regular session additive manufacturing and mass customization regular session frameworks and conceptual modelling for systems and services efficiency regular session optimization of production and transportation systems regular session optimization of supply chain agility and reconfigurability regular session advanced modelling approaches regular session simulation and optimization of systems performances regular session AI based approaches for quality and performance improvement of production systems and regular session risk and performance management of

supply chains The conference was held online *Multi-Operating System Networking* Raj Rajagopal,1999-11-08 Here is all the practical hands on information you need to build manage and maintain a heterogeneous computing environment with hardware software and network equipment from a number of different vendors Packed with real world case studies and proven techniques for integrating disparate platforms operating systems and servers Multi Operating **InfoWorld**,1994-02-14 InfoWorld is targeted to Senior IT professionals Content is segmented into Channels and Topic Centers InfoWorld also celebrates people companies and projects *InfoWorld*,1988-06-27 InfoWorld is targeted to Senior IT professionals Content is segmented into Channels and Topic Centers InfoWorld also celebrates people companies and projects *Client/server Programming with OS/2 2.0* Robert Orfali,Dan Harkey,1992 This updated edition features extensive revisions to explain OS 2 2 0 and its new functions The authors also introduce new database features and incorporate them into RSQL New SAA features System View and the Distributed Computing Environment DCE are fully described Code developed with OS 2 2 0 s Workframe environment and the new 32 bit C Set 2 compiler enables users to make improvements in tasking APIs and PM calls Other new sections in the edition address Novell TCP IP CPI C CUA 91 and the OS 2 Workplace Shell **Handbook of Heterogeneous Networking** Raj Rajgopal,2018-01-31 Here is all the practical hands on information you need to build manage and maintain a heterogeneous computing environment with hardware software and network equipment from a number of different vendors Packed with real world case studies and proven techniques for integrating disparate platforms operating systems and servers Handbook of Heterogeneous Computing is a one stop non nonsense guide that shows you how to port and develop applications in a heterogeneous environment manage desktops data access communications and security in a heterogeneous environment and build distributed heterogeneous systems What is best for your installation Should you standardize on the Windows environment for both production applications and office applications Should you adopt the Windows NT workstation as a standard desktop and use Windows NT as the network operating system Handbook of Heterogeneous Computing details the advantages and disadvantages of these and other approaches The book also explains the arts of porting and developing applications in a heterogeneous environment using Java CGI Perl and other tools how to build interfaces with mainframe legacy systems how to use CORBA to integrate distributed database systems while at the same time managing database gateways and interoperability how to manage interlan switching multicast networking structures SNA LAN integration and all aspects of enterprise networks and how to use Kerberos firewalls PGP RSA public keys and other tools to assure security in heterogeneous environments Heterogeneous computing is here to stay It is therefore up to corporate end users to make competing products fit into their environments efficiently effectively and economically Handbook of Heterogeneous Computing gives you t CASE Strategies Guide for Information Managers Simon Holloway,Tony Bidgood,2018-12-17 First published in 1993 this book explores the technical opportunities and constraints vendors and users business objectives and critical success factors and

intellectually inspired advances in methodologies and techniques of Computer Aided Systems Engineering or CASE for short This book is designed to be read on its own as a high level guide to the strategies of the certain vendors Computerworld,1989-07-17 For more than 40 years Computerworld has been the leading source of technology news and information for IT influencers worldwide Computerworld s award winning Web site Computerworld com twice monthly publication focused conference series and custom research form the hub of the world s largest global IT media network **Records and Information Management** Patricia C. Franks,2013-04-30 Benefiting LIS students and professionals alike Franks presents complete coverage of the records and information lifecycle model *Computerworld* ,1988-06-27 For more than 40 years Computerworld has been the leading source of technology news and information for IT influencers worldwide Computerworld s award winning Web site Computerworld com twice monthly publication focused conference series and custom research form the hub of the world s largest global IT media network **Computerworld** ,1988-06-13 For more than 40 years Computerworld has been the leading source of technology news and information for IT influencers worldwide Computerworld s award winning Web site Computerworld com twice monthly publication focused conference series and custom research form the hub of the world s largest global IT media network **Inventory Management** G.P. Kiesmüller,2024-08-16 This book contains several topics of inventory management where the focus is on cycle and safety stocks in different situations In order to make well founded statements mathematical models are used The chosen models are simple and certainly cover only some aspects of real life However they are very valuable in understanding tradeoffs and identifying the essential factors affecting stock levels Moreover they can be used to support decision making and optimize stock levels *Interoperable Database Systems (DS-5)* D.K. Hsiao,E.J. Neuhold,R. Sacks-Davis,2014-05-23 The proliferation of databases within organizations have made it imperative to allow effective sharing of information from these disparate database systems In addition it is desirable that the individual systems must maintain a certain degree of autonomy over their data in order to continue to provide for their existing applications and to support controlled access to their information Thus it becomes necessary to develop new techniques and build new functionality to interoperate these autonomous database systems and to integrate them into an overall information system Research into interoperable database systems has advanced substantially over recent years in response to this need The papers presented in this volume cover a wide spectrum of both theoretical and pragmatic issues related to the semantics of interoperable database systems Topics covered include techniques to support the translation between database schema and between database languages object oriented frameworks for supporting interoperability of heterogeneous databases knowledge base integration and techniques for overcoming schematic discrepancies in interoperable databases In addition there are papers addressing issues of security transaction processing data modelling and object identification in interoperable database systems It is hoped the publication will represent a valuable collective contribution to research and development in the field for database researchers implementors designers

application builders and users alike

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