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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 Al/ML applications in the healthcare domain.

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

I. INTRODUCTION

RADITIONAL 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. Al 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, AUML 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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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 **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 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

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 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 Earth System Monitor ,1994 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 <u>Information Management</u> 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 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 InfoWorld, 1989-05-08 InfoWorld is targeted to Senior IT professionals Content is

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