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Data Lake Development with Big Data

Explore architectural approaches to building Data Lakes that ingest, index, manage, and analyze massive amounts of data using Big Data technologies

Pradeep Pasupuleti
Beulah Salome Purra

[PACKT]
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Data Lake Development Big

Valentina Mantulenko



Data Lake Development Big:

Data Lake Development with Big Data Pradeep Pasupuleti, Beulah Salome Purra, 2015-11-26 Explore architectural approaches to building Data Lakes that ingest index manage and analyze massive amounts of data using Big Data technologies About This Book Comprehend the intricacies of architecting a Data Lake and build a data strategy around your current data architecture Efficiently manage vast amounts of data and deliver it to multiple applications and systems with a high degree of performance and scalability Packed with industry best practices and use case scenarios to get you up and running Who This Book Is For This book is for architects and senior managers who are responsible for building a strategy around their current data architecture helping them identify the need for a Data Lake implementation in an enterprise context The reader will need a good knowledge of master data management and information lifecycle management and experience of Big Data technologies What You Will Learn Identify the need for a Data Lake in your enterprise context and learn to architect a Data Lake Learn to build various tiers of a Data Lake such as data intake management consumption and governance with a focus on practical implementation scenarios Find out the key considerations to be taken into account while building each tier of the Data Lake Understand Hadoop oriented data transfer mechanism to ingest data in batch micro batch and real time modes Explore various data integration needs and learn how to perform data enrichment and data transformations using Big Data technologies Enable data discovery on the Data Lake to allow users to discover the data Discover how data is packaged and provisioned for consumption Comprehend the importance of including data governance disciplines while building a Data Lake In Detail A Data Lake is a highly scalable platform for storing huge volumes of multistructured data from disparate sources with centralized data management services This book explores the potential of Data Lakes and explores architectural approaches to building data lakes that ingest index manage and analyze massive amounts of data using batch and real time processing frameworks It guides you on how to go about building a Data Lake that is managed by Hadoop and accessed as required by other Big Data applications This book will guide readers using best practices in developing Data Lake s capabilities It will focus on architect data governance security data quality data lineage tracking metadata management and semantic data tagging By the end of this book you will have a good understanding of building a Data Lake for Big Data Style and approach Data Lake Development with Big Data provides architectural approaches to building a Data Lake It follows a use case based approach where practical implementation scenarios of each key component are explained It also helps you understand how these use cases are implemented in a Data Lake The chapters are organized in a way that mimics the sequential data flow evidenced in a Data Lake

Handbook of Research on Pattern Engineering System Development for Big Data Analytics Tiwari, Vivek, Thakur, Ramjeevan Singh, Tiwari, Basant, Gupta, Shailendra, 2018-04-20 Due to the growing use of web applications and communication devices the use of data has increased throughout various industries It is necessary to develop new techniques for managing data in order to ensure

adequate usage The Handbook of Research on Pattern Engineering System Development for Big Data Analytics is a critical scholarly resource that examines the incorporation of pattern management in business technologies as well as decision making and prediction process through the use of data management and analysis Featuring coverage on a broad range of topics such as business intelligence feature extraction and data collection this publication is geared towards professionals academicians practitioners and researchers seeking current research on the development of pattern management systems for business applications *Data Lakes* Anne Laurent, Dominique Laurent, Cédrine Madera, 2020-04-09 The concept of a data lake is less than 10 years old but they are already hugely implemented within large companies Their goal is to efficiently deal with ever growing volumes of heterogeneous data while also facing various sophisticated user needs However defining and building a data lake is still a challenge as no consensus has been reached so far Data Lakes presents recent outcomes and trends in the field of data repositories The main topics discussed are the data driven architecture of a data lake the management of metadata supplying key information about the stored data master data and reference data the roles of linked data and fog computing in a data lake ecosystem and how gravity principles apply in the context of data lakes A variety of case studies are also presented thus providing the reader with practical examples of data lake management *Towards Industry 4.0 – Current Challenges in Information Systems* Marcin Hernes, Artur Rot, Dorota Jelonek, 2020-03-10 This book discusses various aspects of Industry 4 0 from the perspective of information system evolution Industry 4 0 refers to a new phase in the industrial revolution that relies heavily on interconnectivity automation machine learning real time data the Internet of Things and blockchain technology The interdisciplinary book addresses a number of topics related to modern information technologies and presents innovative concepts methods models and tools for the development of information systems to support Industry 4 0 Focusing on artificial intelligence collective knowledge processing and blockchain technology it appeals to a wide readership including researchers students business managers and professionals software developers as well as IT and management specialists **Proceedings of the 3rd International Conference Engineering Innovations and Sustainable Development** Valentina Mantulenko, 2024-08-10 This book presents the contributions from the 3rd International Conference Engineering Innovations and Sustainable Development held in Samara Russia on April 26 2024 By presenting international research on various sustainability issues it includes topics such as current trends in industrial and agricultural development innovations in the construction and transport sectors problems concerning the financing of innovative activities and governmental support for innovations and engineering competences and skills in the era of new technologies It also covers the economic environmental and informational aspects of sustainable development in the context of innovations Finally the book addresses theoretical and practical aspects by studying the phenomenon of sustainability and engineering development in terms of comparing international experiences It provides significant value for scientists teachers and students of higher educational institutions and specialists who are researching sustainable development issues in the era

of engineering innovations *The Enterprise Big Data Lake* Alex Gorelik, 2019-02-21 The data lake is a daring new approach for harnessing the power of big data technology and providing convenient self service capabilities But is it right for your company This book is based on discussions with practitioners and executives from more than a hundred organizations ranging from data driven companies such as Google LinkedIn and Facebook to governments and traditional corporate enterprises You ll learn what a data lake is why enterprises need one and how to build one successfully with the best practices in this book Alex Gorelik CTO and founder of Waterline Data explains why old systems and processes can no longer support data needs in the enterprise Then in a collection of essays about data lake implementation you ll examine data lake initiatives analytic projects experiences and best practices from data experts working in various industries Get a succinct introduction to data warehousing big data and data science Learn various paths enterprises take to build a data lake Explore how to build a self service model and best practices for providing analysts access to the data Use different methods for architecting your data lake Discover ways to implement a data lake from experts in different industries Digital Transformation for Business and Society Mohammad Nabil Almunawar, Patricia Ordóñez de Pablos, Muhammad Anshari, 2023-10-06 The advancement of technology such as data analytics and AI has led to the birth of Industry 4 0 in which technology seems to be at the centre of development However as the COVID 19 pandemic created havoc the entire world production chain was seriously affected highlighting that machines alone although fully connected and automated cannot function without people This book addresses contemporary issues and the impact of digital transformation on individuals businesses and governments in Asia As Asian nations are moving fast towards the digital economy this edited collection offers new perspectives on understanding emerging business opportunities as well as the challenges faced Chapters explore the variables that accelerate digital transformation notably the COVID 19 pandemic the rapid development of information and communication technology AI big data and affordable internet access and their impact on business and society With rich empirical studies from leading researchers this book will be a reference for academics and scholars across business disciplines including information technology and innovation management organisational and strategic management as well as those interested in industrial development **Big Data Applications in Industry 4.0** P. Kaliraj, T. Devi, 2022-02-09 Industry 4 0 is the latest technological innovation in manufacturing with the goal to increase productivity in a flexible and efficient manner Changing the way in which manufacturers operate this revolutionary transformation is powered by various technology advances including Big Data analytics Internet of Things IoT Artificial Intelligence AI and cloud computing Big Data analytics has been identified as one of the significant components of Industry 4 0 as it provides valuable insights for smart factory management Big Data and Industry 4 0 have the potential to reduce resource consumption and optimize processes thereby playing a key role in achieving sustainable development Big Data Applications in Industry 4 0 covers the recent advancements that have emerged in the field of Big Data and its applications The book introduces the concepts and

advanced tools and technologies for representing and processing Big Data It also covers applications of Big Data in such domains as financial services education healthcare biomedical research logistics and warehouse management Researchers students scientists engineers and statisticians can turn to this book to learn about concepts technologies and applications that solve real world problems Features An introduction to data science and the types of data analytics methods accessible today An overview of data integration concepts methodologies and solutions A general framework of forecasting principles and applications as well as basic forecasting models including na ve moving average and exponential smoothing models A detailed roadmap of the Big Data evolution and its related technological transformation in computing along with a brief description of related terminologies The application of Industry 4 0 and Big Data in the field of education The features prospects and significant role of Big Data in the banking industry as well as various use cases of Big Data in banking finance services and insurance Implementing a Data Lake DL in the cloud and the significance of a data lake in decision making

Paradigms on Technology Development for Security Practitioners Ilias Gkotsis,Dimitrios Kavallieros,Nikolai Stoianov,Stefanos Vrochidis,Dimitrios Diagourtas,Babak Akhgar,2024-09-29 This open access book is authored by a rich mix of contributors from across the landscape of research academia LEAs civil protection and other first responders practitioners public and private organizations and industry to address some of the most contemporary challenges within global security domain The authors cover topics such as protection of critical infrastructures CI serious and organized crime counter cyber terrorism border management cybercrime cybersecurity management of disasters and crises big data analytics the application of AI and the legal and ethical dimensions of the implementation of cutting edge technologies The book benefits from research actions and lessons learned from more than 35 EU R D projects within the security domain The book not only addresses theoretical narratives pertinent to the subject but also identifies current challenges and emerging security threats provides analysis of operational capability gaps real world applied solutions methodologies and case studies within security domain This is an open access book

The Proceedings of 2024 International Conference on Artificial Intelligence and Autonomous Transportation Jun Liu,Jianjian Yang,Minyi Xu,Quan Yu,Wenchao Shen,2025-03-27 This book reflects the latest research trends methods and experimental results in the field of Artificial Intelligence and Autonomous Transportation which covers abundant state of the art research theories and ideas As a vital research area that is highly relevant to current developments in a number of technological domains the topics covered include Autonomous Transportation Systems Autonomous Transportation Management and Control Technology Autonomous Transportation Equipment Technology Vehicular Networking and Information Security Emerging Technologies and Future Mobility Intelligent water transportation technology Cross Domain Transportation Technology and so on The goal of the proceedings is to provide a major interdisciplinary forum for researchers engineers academics and industry professionals to present the most innovative research and development in the field of Artificial Intelligence and Autonomous Transportation Engineers and researchers

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