Srinivasa Rao

NOSQL Data
Architecture and
Modelling

Cassandra: Practical Data Warehousing

Cassandra With Practical Data Warehousing Nosql Data Architecture And Modelling

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Cassandra With Practical Data Warehousing Nosql Data Architecture And Modelling:

   Cassandra ,2015-12-25 This book covers Cassandra as a whole with its main focus on Set Relational Data Model and Data Warehousing This book is divided into seven chapters Chapter One introduces NoSQL and its concepts and the types of NoSQL databases available in the market Chapter Two focusses mainly on Cassandra Architecture and Theory Chapter Three focusses on Cassandra Data Objects like tables columns indexes and so on Chapter Four covers Cassandra Query language Chapter Five talks about Data Modelling techniques that have been used from last two decades and over Chapter Six covers NoSQL Data Modelling techniques called Set Relational Model which can be used to build scalable Data Warehouses and Data Lakes Chapter Seven covers integration aspects of Cassandra with various programming languages and other RDBMS databases like SQL Server   **Practical Cassandra** Russell Bradberry,Eric Lubow,2014 Eric and Russell were early adopters of Cassandra at SimpleReach In Practical Cassandra you benefit from their experience in the trenches administering Cassandra developing against it and building one of the first CQL drivers If you are deploying Cassandra soon or you inherited a Cassandra cluster to tend spend some time with the deployment performance tuning and maintenance chapters If you are new to Cassandra I highly recommend the chapters on data modeling and CQL From the Foreword by Jonathon Ellis Apache Cassandra Chair Build and Deploy Massively Scalable Super fast Data Management Applications with Apache Cassandra Practical Cassandra is the first hands on developer s guide to building Cassandra systems and applications that deliver breakthrough speed scalability reliability and performance Fully up to date it reflects the latest versions of Cassandra including Cassandra Query Language CQL which dramatically lowers the learning curve for Cassandra developers Pioneering Cassandra developers and Datastax MVPs Russell Bradberry and Eric Lubow walk you through every step of building a real production application that can store enormous amounts of structured semi structured and unstructured data Drawing on their exceptional expertise Bradberry and Lubow share practical insights into issues ranging from querying to deployment management maintenance monitoring and troubleshooting The authors cover key issues from architecture to migration and guide you through crucial decisions about configuration and data modeling They provide tested sample code detailed explanations of how Cassandra works under the covers and new case studies from three cutting edge users Ooyala Hailo and eBay Coverage includes Understanding Cassandra s approach architecture key concepts and primary use cases and why it s so blazingly fast Getting Cassandra up and running on single nodes and large clusters Applying the new design patterns philosophies and features that make Cassandra such a powerful data store Leveraging CQL to simplify your transition from SQL based RDBMSes Deploying and provisioning through the cloud or on bare metal hardware Choosing the right configuration options for each type of workload Tweaking Cassandra to get maximum performance from your hardware OS and JVM Mastering Cassandra s essential tools for maintenance and monitoring Efficiently solving the most common problems with Cassandra deployment operation and application development   *Java Persistence with NoSQL* Otávio

Santana,2024-03-08 Unlock infinite possibilities Java NoSQL Enterprise excellence KEY FEATURES Gain expertise with the theory and practice of NoSQL databases Master Java principles and code design for NoSQL incorporation Learn to integrate NoSQL databases into robust enterprise architectures DESCRIPTION Java Persistence with NoSQL is a comprehensive guide that offers a unique blend of theoretical knowledge and practical implementation making it an invaluable resource for those seeking to excel in their roles The book is divided into four parts covering essential NoSQL concepts Java principles Jakarta EE integration and the integration of NoSQL databases into enterprise architectures Readers will explore NoSQL databases comparing their strengths and use cases They will then master Java coding principles and design patterns necessary for effective NoSQL integration The book also discusses the latest Jakarta EE specifications enhancing readers understanding of Jakarta s role in data storage and retrieval Finally readers will learn to implement various NoSQL databases into enterprise grade solutions ensuring security high availability and fault tolerance With hands on exercises real world examples and best practices this book equips professionals with the skills and knowledge needed to excel in building robust and scalable Java applications using NoSQL databases WHAT YOU WILL LEARN Mastering NoSQL concepts and choosing the right database solutions Integrating NoSQL databases into Java and Jakarta EE applications Implementing Java design patterns for efficient data persistence Leveraging Jakarta EE and MicroProfile for enhanced Java architecture Designing enterprise grade solutions with NoSQL databases for high availability WHO THIS BOOK IS FOR This book is tailored for senior engineers architects Java developers and NoSQL enthusiasts who want to deepen their understanding of NoSQL databases within the Java ecosystem TABLE OF CONTENTS 1 Introduction to NoSQL Databases 2 NoSQL Databases A Comparative Analysis 3 Running NoSQL in Production Best Practices and Considerations 4 Streamlining Java Application Integration with Frameworks 5 Java Persistence Design Pattern 6 Java Architecture and Persistence Layer 7 Introduction to Jakarta EE and MicroProfile 8 Advanced Validation Techniques with Jakarta Bean Validation 9 Enhance Object oriented Programming with CDI 10 Implementing Rest with JAX RS 11 Introduction to Jakarta EE NoSQL and Data 12 Redis Integration 13 Cassandra Integration 14 MongoDB Integration 15 Neo4J Integration 16 ArangoDB and Couchbase Integration 17 Final Considerations

Practical Hadoop Migration Bhushan Lakhe,2016-08-10 Re architect relational applications to NoSQL integrate relational database management systems with the Hadoop ecosystem and transform and migrate relational data to and from Hadoop components This book covers the best practice design approaches to re architecting your relational applications and transforming your relational data to optimize concurrency security denormalization and performance Winner of IBM s 2012 Gerstner Award for his implementation of big data and data warehouse initiatives and author of Practical Hadoop Security author Bhushan Lakhe walks you through the entire transition process First he lays out the criteria for deciding what blend of re architecting migration and integration between RDBMS and HDFS best meets your transition objectives Then he demonstrates how to design your transition model Lakhe proceeds to cover the selection criteria for ETL tools the

implementation steps for migration with SQOOP and Flume based data transfers and transition optimization techniques for tuning partitions scheduling aggregations and redesigning ETL Finally he assesses the pros and cons of data lakes and Lambda architecture as integrative solutions and illustrates their implementation with real world case studies Hadoop NoSQL solutions do not offer by default certain relational technology features such as role based access control locking for concurrent updates and various tools for measuring and enhancing performance Practical Hadoop Migration shows how to use open source tools to emulate such relational functionalities in Hadoop ecosystem components What You ll Learn Decide whether you should migrate your relational applications to big data technologies or integrate them Transition your relational applications to Hadoop NoSQL platforms in terms of logical design andphysical implementation Discover RDBMS to HDFS integration data transformation and optimization techniques Consider when to use Lambda architecture and data lake solutions Select and implement Hadoop based components and applications to speed transition optimize integrated performance and emulate relational functionalities Who This Book Is For Database developers database administrators enterprise architects Hadoop NoSQL developers and IT leaders Its secondary readership is project and program managers and advanced students of database and management information systems   *Database System Concepts (Volume 2)* N.B. Singh, Database System Concepts is a comprehensive guide to understanding how database systems work from the basics to advanced topics This book walks readers through essential areas including how data is stored organized and managed efficiently It explains complex subjects like distributed databases cloud based storage and query processing using clear relatable examples Designed for both beginners and those looking to deepen their knowledge Database System Concepts explores how databases ensure data consistency availability and security This book is an essential resource for anyone interested in learning how databases are designed implemented and maintained in today s data focused world   Python Data Cleaning and Preparation Best Practices Maria Zervou,2024-09-27 Take your data preparation skills to the next level by converting any type of data asset into a structured formatted and readily usable dataset Key Features Maximize the value of your data through effective data cleaning methods Enhance your data skills using strategies for handling structured and unstructured data Elevate the quality of your data products by testing and validating your data pipelines Purchase of the print or Kindle book includes a free PDF eBook Book DescriptionProfessionals face several challenges in effectively leveraging data in today s data driven world One of the main challenges is the low quality of data products often caused by inaccurate incomplete or inconsistent data Another significant challenge is the lack of skills among data professionals to analyze unstructured data leading to valuable insights being missed that are difficult or impossible to obtain from structured data alone To help you tackle these challenges this book will take you on a journey through the upstream data pipeline which includes the ingestion of data from various sources the validation and profiling of data for high quality end tables and writing data to different sinks You ll focus on structured data by performing essential tasks such as cleaning and encoding datasets

and handling missing values and outliers before learning how to manipulate unstructured data with simple techniques You ll also be introduced to a variety of natural language processing techniques from tokenization to vector models as well as techniques to structure images videos and audio By the end of this book you ll be proficient in data cleaning and preparation techniques for both structured and unstructured data What you will learn Ingest data from different sources and write it to the required sinks Profile and validate data pipelines for better quality control Get up to speed with grouping merging and joining structured data Handle missing values and outliers in structured datasets Implement techniques to manipulate and transform time series data Apply structure to text image voice and other unstructured data Who this book is for Whether you re a data analyst data engineer data scientist or a data professional responsible for data preparation and cleaning this book is for you Working knowledge of Python programming is needed to get the most out of this book   Seven NoSQL Databases in a Week Xun (Brian) Wu,Sudarshan Kadambi,Devram Kandhare,Aaron Ploetz,2018-03-29 A beginner s guide to get you up and running with Cassandra DynamoDB HBase InfluxDB MongoDB Neo4j and Redis Key Features Covers the basics of 7 NoSQL databases and how they are used in the enterprises Quick introduction to MongoDB DynamoDB Redis Cassandra Neo4j InfluxDB and HBase Includes effective techniques for database querying and management Book Description This is the golden age of open source NoSQL databases With enterprises having to work with large amounts of unstructured data and moving away from expensive monolithic architecture the adoption of NoSQL databases is rapidly increasing Being familiar with the popular NoSQL databases and knowing how to use them is a must for budding DBAs and developers This book introduces you to the different types of NoSQL databases and gets you started with seven of the most popular NoSQL databases used by enterprises today We start off with a brief overview of what NoSQL databases are followed by an explanation of why and when to use them The book then covers the seven most popular databases in each of these categories MongoDB Amazon DynamoDB Redis HBase Cassandra InfluxDB and Neo4j The book doesn t go into too much detail about each database but teaches you enough to get started with them By the end of this book you will have a thorough understanding of the different NoSQL databases and their functionalities empowering you to select and use the right database according to your needs What you will learn Understand how MongoDB provides high performance high availability and automatic scaling Interact with your Neo4j instances via database queries Python scripts and Java application code Get familiar with common querying and programming methods to interact with Redis Study the different types of problems Cassandra can solve Work with HBase components to support common operations such as creating tables and reading writing data Discover data models and work with CRUD operations using DynamoDB Discover what makes InfluxDB a great choice for working with time series data Who this book is for If you are a budding DBA or a developer who wants to get started with the fundamentals of NoSQL databases this book is for you Relational DBAs who want to get insights into the various offerings of popular NoSQL databases will also find this book to be very useful   *Computational Intelligence,*

Communications, and Business Analytics J. K. Mandal,Paramartha Dutta,Somnath Mukhopadhyay,2017-10-01 The two volume set CCIS 775 and 776 constitutes the refereed proceedings of the First International Conference on Computational Intelligence Communications and Business Analytics CICBA 2017 held in Kolkata India in March 2017 The 90 revised full papers presented in the two volumes were carefully reviewed and selected from 276 submissions The papers are organized in topical sections on data science and advanced data analytics signal processing and communications microelectronics sensors intelligent networks computational forensics privacy and security computational intelligence in bio computing computational intelligence in mobile and quantum computing intelligent data mining and data warehousing computational intelligence

Driving Digital Transformation through Data and AI Alexander Borek,Nadine Prill,2020-11-03 Leading tech companies such as Netflix Amazon and Uber use data science and machine learning at scale in their core business processes whereas most traditional companies struggle to expand their machine learning projects beyond a small pilot scope This book enables organizations to truly embrace the benefits of digital transformation by anchoring data and AI products at the core of their business It provides executives with the essential tools and concepts to establish a data and AI portfolio strategy as well as the organizational setup and agile processes that are required to deliver machine learning products at scale Key consideration is given to advancing the data architecture and governance balancing stakeholder needs and breaking organizational silos through new ways of working Each chapter includes templates common pitfalls and global case studies covering industries such as insurance fashion consumer goods finance manufacturing and automotive Covering a holistic perspective on strategy technology product and company culture Driving Digital Transformation through Data and AI guides the organizational transformation required to get ahead in the age of AI **Continuous Architecture in Practice** Eoin Woods,Murat Erder,Pierre Pureur,2021-05-26 Update Your Architectural Practices for New Challenges Environments and Stakeholder Expectations I am continuously delighted and inspired by the work of these authors Their first book laid the groundwork for understanding how to evolve the architecture of a software intensive system and this latest one builds on it in some wonderfully actionable ways Grady Booch Chief Scientist for Software Engineering IBM Research Authors Murat Erder Pierre Pureur and Eoin Woods have taken their extensive software architecture experience and applied it to the practical aspects of software architecture in real world environments Continuous Architecture in Practice provides hands on advice for leveraging the continuous architecture approach in real world environments and illuminates architecture s changing role in the age of Agile DevOps and cloud platforms This guide will help technologists update their architecture practice for new software challenges As part of the Vaughn Vernon Signature Series this title was hand selected for the practical delivery oriented knowledge that architects and software engineers can quickly apply It includes in depth guidance for addressing today s key quality attributes and cross cutting concerns such as security performance scalability resilience data and emerging technologies Each key technique is demonstrated through a start to finish case study reflecting the

authors deep experience with complex software environments Key topics include Creating sustainable coherent systems that meet functional requirements and the quality attributes stakeholders care about Understanding team based software architecture and architecture as a flow of decisions Understanding crucial issues of data management integration and change and the impact of varied data technologies on architecture Architecting for security including continuous threat modeling and mitigation Architecting for scalability and resilience including scaling microservices and serverless environments Using architecture to improve performance in continuous delivery environments Using architecture to apply emerging technologies successfully Register your book for convenient access to downloads updates and or corrections as they become available See inside book for details **Practical Machine Learning** Sunila Gollapudi,2016-01-30 Tackle the real world complexities of modern machine learning with innovative cutting edge techniques About This Book Fully coded working examples using a wide range of machine learning libraries and tools including Python R Julia and Spark Comprehensive practical solutions taking you into the future of machine learning Go a step further and integrate your machine learning projects with Hadoop Who This Book Is For This book has been created for data scientists who want to see machine learning in action and explore its real world application With guidance on everything from the fundamentals of machine learning and predictive analytics to the latest innovations set to lead the big data revolution into the future this is an unmissable resource for anyone dedicated to tackling current big data challenges Knowledge of programming Python and R and mathematics is advisable if you want to get started immediately What You Will Learn Implement a wide range of algorithms and techniques for tackling complex data Get to grips with some of the most powerful languages in data science including R Python and Julia Harness the capabilities of Spark and Hadoop to manage and process data successfully Apply the appropriate machine learning technique to address real world problems Get acquainted with Deep learning and find out how neural networks are being used at the cutting edge of machine learning Explore the future of machine learning and dive deeper into polyglot persistence semantic data and more In Detail Finding meaning in increasingly larger and more complex datasets is a growing demand of the modern world Machine learning and predictive analytics have become the most important approaches to uncover data gold mines Machine learning uses complex algorithms to make improved predictions of outcomes based on historical patterns and the behaviour of data sets Machine learning can deliver dynamic insights into trends patterns and relationships within data immensely valuable to business growth and development This book explores an extensive range of machine learning techniques uncovering hidden tricks and tips for several types of data using practical and real world examples While machine learning can be highly theoretical this book offers a refreshing hands on approach without losing sight of the underlying principles Inside a full exploration of the various algorithms gives you high quality guidance so you can begin to see just how effective machine learning is at tackling contemporary challenges of big data This is the only book you need to implement a whole suite of open source tools frameworks and languages in machine learning We

will cover the leading data science languages Python and R and the underrated but powerful Julia as well as a range of other big data platforms including Spark Hadoop and Mahout Practical Machine Learning is an essential resource for the modern data scientists who want to get to grips with its real world application With this book you will not only learn the fundamentals of machine learning but dive deep into the complexities of real world data before moving on to using Hadoop and its wider ecosystem of tools to process and manage your structured and unstructured data You will explore different machine learning techniques for both supervised and unsupervised learning from decision trees to Naive Bayes classifiers and linear and clustering methods you will learn strategies for a truly advanced approach to the statistical analysis of data The book also explores the cutting edge advancements in machine learning with worked examples and guidance on deep learning and reinforcement learning providing you with practical demonstrations and samples that help take the theory and mystery out of even the most advanced machine learning methodologies Style and approach A practical data science tutorial designed to give you an insight into the practical application of machine learning this book takes you through complex concepts and tasks in an accessible way Featuring information on a wide range of data science techniques Practical Machine Learning is a comprehensive data science resource *Learning Systems: From Theory to Practice* Vassil Sgurev,Vincenzo Piuri,Vladimir Jotsov,2018-04-05 By presenting the latest advances in fuzzy sets and computing with words from around the globe this book disseminates recent innovations in advanced intelligent technologies and systems From intelligent control and intuitionistic fuzzy quantifiers to various data science and industrial applications it includes a wide range of valuable lessons learned and ideas for future intelligent products and systems *RDBMS In-Depth* Dr. Madhavi Vaidya,2021-02-25 Understanding and implementing the database management systems concepts in SQL and PL SQL KEY FEATURES _ Practice SQL concepts by writing queries and perform your own data visualization and analysis _ Gain insights on Entity Relationship Model and how to implement in your business environment _ Series of question banks and case studies to develop strong hold on RDBMS concepts DESCRIPTION Relational Database Management Systems In Depth brings the fundamental concepts of database management systems to you in more elaborated learning with conceptual clarity of RDBMS This book brings an extensive coverage of theoretical concepts on types of databases concepts of relational database management systems normalization and many more You will explore exemplification of Entity Relational Model concepts that would teach the readers to design accurate business systems Backed with a series of examples you can practice the fundamental concepts of RDBMS and SQL queries including Oracle s SQL queries MySQL and SQL Server In addition to the illustration of concepts on SQL there is an implementation of crucial business rules using PL SQL based stored procedures and database triggers Finally by the end of this book there is a mention of the useful data oriented technologies like Big Data Data Lake etc and the crucial role played by such techniques in the current data driven decisions Throughout the book you will come across key learnings and key terms that will help you to understand and revise the concepts learned Along with this you will also come across questions

and case studies by the end of every chapter to prepare for job interviews and certifications WHAT YOU WILL LEARN _ Depiction of Entity Relationship Model with various business case studies _ Illustration of the normalization concept to make the database stronger and consistent _ Designing the successful client server applications using PL SQL concepts _ Learning the concepts of OODBS and Database Design with Normalization and Relationships _ Knowing various techniques regarding Big Data technologies like Hadoop MapReduce and MongoDB WHO THIS BOOK IS FOR This book is meant for academicians students developers and administrators including beginners and readers experienced in some other programming languages and database systems TABLE OF CONTENTS 1 Database Systems Architecture 2 Database Management System Models 3 Relational query languages 4 Relational Database Design 5 Query Processing and Optimization 6 Transaction Processing 7 Implementation Techniques 8 SQL Concepts 9 PL SQL Concepts 10 Collections in PL SQL 11 What Next   Cloud Native Database Feifei Li,Xuan Zhou,Peng Cai,Rong Zhang,Gui Huang,XiangWen Liu,2025-02-24 This book analyzes in detail the technological evolution process of databases in the era of cloud computing and explains how traditional database technology has gradually developed to cloud native form from multiple perspectives such as architecture design implementation mechanism and system optimization This book emphasizes the full combination of theory and practice and also analyzes the SQL optimization and execution transaction processing caching and indexing principles of databases implemented by MySQL PostgreSQL and other systems what trade offs and compromises are made in the face of actual application requirements how to optimize in the face of complex application scenarios and the reasons behind making various choices At the same time combined with Alibaba Cloud s R D experience in the database field this book focuses on a series of core technical principles of modern database evolution from system to service such as the use of cloud computing resource pooling technology and distributed technology to achieve high availability elastic expansion and on demand use of databases The book is informative combines theoretical depth and implementation details and openly explores the new development direction of the database which can inspire readers to think further   eWork and eBusiness in Architecture, Engineering and Construction Ardeshir Mahdavi,Bob Martens,Raimar Scherer,2014-08-21 In the last two decades the biannual ECPPM European Conference on Product and Process Modelling conference series has provided a unique platform for the presentation and discussion of the most recent advances with regard to the ICT Information and Communication Technology applications in the AEC FM Architecture Engineering Construction and Facilities Management domains ECPPM 2014 the 10th European Conference on Product and Process Modelling was hosted by the Department of Building Physics and Building Ecology of the Vienna University of Technology Austria 17 19 September 2014 This book entails a substantial number of high quality contributions that cover a large spectrum of topics pertaining to ICT deployment instances in AEC FM including BIM Building Information Modelling ICT in Civil engineering Infrastructure Human requirements factors Computational decision support Commissioning monitoring occupancy Energy management Ontology data models and IFC Industry Foundation Classes

Energy modelling Thermal performance simulation Sustainable buildings Micro climate modelling Model calibration Project construction management Data information management As such eWork and eBusiness in Architecture Engineering and Construction 2014 represents a rich and comprehensive resource for academics and professionals working in the interdisciplinary areas of information technology applications in architecture engineering and construction *Advanced Methodologies and Technologies in Network Architecture, Mobile Computing, and Data Analytics* Khosrow-Pour, D.B.A., Mehdi,2018-10-19 From cloud computing to data analytics society stores vast supplies of information through wireless networks and mobile computing As organizations are becoming increasingly more wireless ensuring the security and seamless function of electronic gadgets while creating a strong network is imperative Advanced Methodologies and Technologies in Network Architecture Mobile Computing and Data Analytics highlights the challenges associated with creating a strong network architecture in a perpetually online society Readers will learn various methods in building a seamless mobile computing option and the most effective means of analyzing big data This book is an important resource for information technology professionals software developers data analysts graduate level students researchers computer engineers and IT specialists seeking modern information on emerging methods in data mining information technology and wireless networks **The Artificial Intelligence Infrastructure Workshop** Chinmay Arankalle,Gareth Dwyer,Bas Geerdink,Kunal Gera,Kevin Liao,Anand N.S.,2020-08-17 Explore how a data storage system works from data ingestion to representation Key FeaturesUnderstand how artificial intelligence machine learning and deep learning are different from one anotherDiscover the data storage requirements of different AI apps using case studiesExplore popular data solutions such as Hadoop Distributed File System HDFS and Amazon Simple Storage Service S3 Book Description Social networking sites see an average of 350 million uploads daily a quantity impossible for humans to scan and analyze Only AI can do this job at the required speed and to leverage an AI application at its full potential you need an efficient and scalable data storage pipeline The Artificial Intelligence Infrastructure Workshop will teach you how to build and manage one The Artificial Intelligence Infrastructure Workshop begins taking you through some real world applications of AI You ll explore the layers of a data lake and get to grips with security scalability and maintainability With the help of hands on exercises you ll learn how to define the requirements for AI applications in your organization This AI book will show you how to select a database for your system and run common queries on databases such as MySQL MongoDB and Cassandra You ll also design your own AI trading system to get a feel of the pipeline based architecture As you learn to implement a deep Q learning algorithm to play the CartPole game you ll gain hands on experience with PyTorch Finally you ll explore ways to run machine learning models in production as part of an AI application By the end of the book you ll have learned how to build and deploy your own AI software at scale using various tools API frameworks and serialization methods What you will learnGet to grips with the fundamentals of artificial intelligenceUnderstand the importance of data storage and architecture in AI applicationsBuild

data storage and workflow management systems with open source toolsContainerize your AI applications with tools such as DockerDiscover commonly used data storage solutions and best practices for AI on Amazon Web Services AWS Use the AWS CLI and AWS SDK to perform common data tasksWho this book is for If you are looking to develop the data storage skills needed for machine learning and AI and want to learn AI best practices in data engineering this workshop is for you Experienced programmers can use this book to advance their career in AI Familiarity with programming along with knowledge of exploratory data analysis and reading and writing files using Python will help you to understand the key concepts covered   *Insights of Big Data science* Dr. Tryambak Hiwarkar,2025-02-14 I would like to express my heartfelt gratitude to my beloved wife Dr Sunita Hiwarkar Vice Principal of DRB Sindhu Mahavidyalaya Nagpur for her unwavering support and motivation throughout this journey I am deeply indebted to Dr Sandeep Pachpande Chairman of ASM Group of Institutions for his visionary leadership and commitment to academic excellence which laid the foundation for this work My sincere thanks also go to Dr Asha Pachpande Secretary of ASM Group of Institutions for her invaluable mentorship and encouragement I extend my appreciation to Dr Priti Pachpande Trustee of ASM Group of Institutions for her strategic vision and support in realizing this academic endeavor I am grateful to Dr V P Pawar Director of MCA ASM Group of Institutions for his counsel and academic guidance I would also like to thank Dr Daniel Penkar Group Dean of IBMR for fostering an environment of academic rigor and Dr Hansraj Thorat Professor and Research Head at IBMR for his unwavering support and intellectual rigor Lastly I express my gratitude to all the members of the academic community at ASM Group of Institutions and IBMR for their collective contributions which made this work possible Dr Sandeep Pachpande Chairman ASM Group of institutions Dr Asha Pachpande madam Secretary ASM group of institutions Chinchwad Pune Dr Priti Pachpande Trustee ASM Group of institutions Dr V P Pawar Director MCA ASM group Dr Daniel Penkar Group Dean IBMR Dr Hansraj Thorat Professor and Research Head IBMR   Deep Learning: Practical Neural Networks with Java Yusuke Sugomori,Bostjan Kaluza,Fabio M. Soares,Alan M. F. Souza,2017-06-08 Build and run intelligent applications by leveraging key Java machine learning libraries About This Book Develop a sound strategy to solve predictive modelling problems using the most popular machine learning Java libraries Explore a broad variety of data processing machine learning and natural language processing through diagrams source code and real world applications This step by step guide will help you solve real world problems and links neural network theory to their application Who This Book Is For This course is intended for data scientists and Java developers who want to dive into the exciting world of deep learning It will get you up and running quickly and provide you with the skills you need to successfully create customize and deploy machine learning applications in real life What You Will Learn Get a practical deep dive into machine learning and deep learning algorithms Explore neural networks using some of the most popular Deep Learning frameworks Dive into Deep Belief Nets and Stacked Denoising Autoencoders algorithms Apply machine learning to fraud anomaly and outlier detection Experiment with deep learning concepts algorithms and the

toolbox for deep learning Select and split data sets into training test and validation and explore validation strategies Apply the code generated in practical examples including weather forecasting and pattern recognition In Detail Machine learning applications are everywhere from self driving cars spam detection document search and trading strategies to speech recognitionStarting with an introduction to basic machine learning algorithms this course takes you further into this vital world of stunning predictive insights and remarkable machine intelligence This course helps you solve challenging problems in image processing speech recognition language modeling You will discover how to detect anomalies and fraud and ways to perform activity recognition image recognition and text You will also work with examples such as weather forecasting disease diagnosis customer profiling generalization extreme machine learning and more By the end of this course you will have all the knowledge you need to perform deep learning on your system with varying complexity levels to apply them to your daily work The course provides you with highly practical content explaining deep learning with Java from the following Packt books Java Deep Learning Essentials Machine Learning in Java Neural Network Programming with Java Second Edition Style and approach This course aims to create a smooth learning path that will teach you how to effectively use deep learning with Java with other de facto components to get the most out of it Through this comprehensive course you ll learn the basics of predictive modelling and progress to solve real world problems and links neural network theory to their application

  Proceedings of the International Conference on Computer Science, Electronics and Industrial Engineering (CSEI 2023) Marcelo V. Garcia,Carlos Gordón-Gallegos,Asier Salazar-Ramírez,Carlos Nuñez,2024-12-22 The Proceedings of the International Conference on Computer Science Electronics and Industrial Engineering CSEI 2023 focuses on Innovations in Industrial Engineering and Robotics in Industry Bridging the Gap Between Theory and Practical Application This collection presents cutting edge research and developments in the rapidly evolving fields of industrial engineering and robotics Featuring peer reviewed papers from leading researchers and practitioners this volume explores the latest advancements in automation smart manufacturing and Industry 4 0 technologies It offers valuable insights into how these innovations are reshaping industrial processes and driving efficiency across various sectors The book addresses key challenges in implementing theoretical concepts in real world industrial settings providing practical solutions and case studies Topics covered include advanced robotics systems industrial IoT applications sustainable manufacturing practices and emerging trends in industrial automation This volume is an essential resource for academics engineers and industry professionals seeking to stay at the forefront of industrial engineering and robotics It serves as a bridge between academic research and industrial application making it invaluable for both theoretical understanding and practical implementation in the field

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Cassandra With Practical Data Warehousing Nosql Data Architecture And Modelling Introduction

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