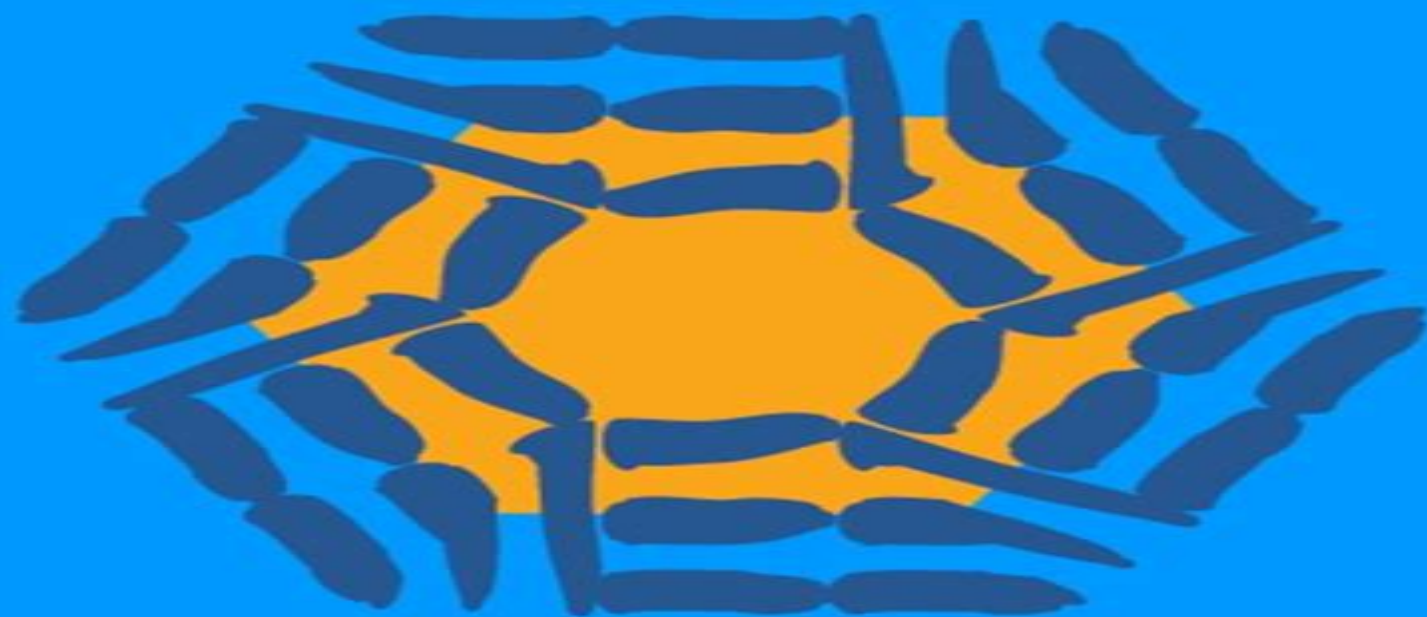


Better Data Modeling



AN INTRODUCTION TO
AGILE DATA ENGINEERING
USING DATA VAULT 2.0

Kent Graziano

Better Data Modeling An Introduction To Agile Data Engineering Using Data Vault

Teresa Guarda, Filipe Portela, Gustavo Gatica



Better Data Modeling An Introduction To Agile Data Engineering Using Data Vault :

An Introduction to Agile Data Engineering Using Data Vault 2.0 Kent Graziano, 2015-11-22 The world of data warehousing is changing Big Data Agile are hot topics But companies still need to collect report and analyze their data Usually this requires some form of data warehousing or business intelligence system So how do we do that in the modern IT landscape in a way that allows us to be agile and either deal directly or indirectly with unstructured and semi structured data The Data Vault System of Business Intelligence provides a method and approach to modeling your enterprise data warehouse EDW that is agile flexible and scalable This book will give you a short introduction to Agile Data Engineering for Data Warehousing and Data Vault 2.0 I will explain why you should be trying to become Agile some of the history and rationale for Data Vault 2.0 and then show you the basics for how to build a data warehouse model using the Data Vault 2.0 standards In addition I will cover some details about the Business Data Vault what it is and then how to build a virtual Information Mart off your Data Vault and Business Vault using the Data Vault 2.0 architecture So if you want to start learning about Agile Data Engineering with Data Vault 2.0 this book is for you

Data Engineering with dbt Roberto Zagni, 2023-06-30 Use easy to apply patterns in SQL and Python to adopt modern analytics engineering to build agile platforms with dbt that are well tested and simple to extend and run Purchase of the print or Kindle book includes a free PDF eBook Key Features Build a solid dbt base and learn data modeling and the modern data stack to become an analytics engineer Build automated and reliable pipelines to deploy test run and monitor ELTs with dbt Cloud Guided dbt Snowflake project to build a pattern based architecture that delivers reliable datasets Book Description dbt Cloud helps professional analytics engineers automate the application of powerful and proven patterns to transform data from ingestion to delivery enabling real DataOps This book begins by introducing you to dbt and its role in the data stack along with how it uses simple SQL to build your data platform helping you and your team work better together You ll find out how to leverage data modeling data quality master data management and more to build a simple to understand and future proof solution As you advance you ll explore the modern data stack understand how data related careers are changing and see how dbt enables this transition into the emerging role of an analytics engineer The chapters help you build a sample project using the free version of dbt Cloud Snowflake and GitHub to create a professional DevOps setup with continuous integration automated deployment ELT run scheduling and monitoring solving practical cases you encounter in your daily work By the end of this dbt book you ll be able to build an end to end pragmatic data platform by ingesting data exported from your source systems coding the needed transformations including master data and the desired business rules and building well formed dimensional models or wide tables that ll enable you to build reports with the BI tool of your choice What you will learn Create a dbt Cloud account and understand the ELT workflow Combine Snowflake and dbt for building modern data engineering pipelines Use SQL to transform raw data into usable data and test its accuracy Write dbt macros and use Jinja to apply software engineering principles Test data and

transformations to ensure reliability and data quality Build a lightweight pragmatic data platform using proven patterns Write easy to maintain idempotent code using dbt materialization Who this book is for This book is for data engineers analytics engineers BI professionals and data analysts who want to learn how to build simple futureproof and maintainable data platforms in an agile way Project managers data team managers and decision makers looking to understand the importance of building a data platform and foster a culture of high performing data teams will also find this book useful Basic knowledge of SQL and data modeling will help you get the most out of the many layers of this book The book also includes primers on many data related subjects to help juniors get started

The Business of Data Vault Modeling Daniel Lindstedt,Kent Graziano,Hans Hultgren,2009

Fundamentals of Analytics Engineering Dumky De Wilde,Fanny Kassapian,Jovan Gligorevic,Juan Manuel Perafan,Lasse Benninga,Ricardo Angel Granados Lopez,Taís Laurindo Pereira,2024-03-29 Gain a holistic understanding of the analytics engineering lifecycle by integrating principles from both data analysis and engineering Key Features Discover how analytics engineering aligns with your organization s data strategy Access insights shared by a team of seven industry experts Tackle common analytics engineering problems faced by modern businesses Purchase of the print or Kindle book includes a free PDF eBook Book DescriptionWritten by a team of 7 industry experts Fundamentals of Analytics Engineering will introduce you to everything from foundational concepts to advanced skills to get started as an analytics engineer After conquering data ingestion and techniques for data quality and scalability you ll learn about techniques such as data cleaning transformation data modeling SQL query optimization and reuse and serving data across different platforms Armed with this knowledge you will implement a simple data platform from ingestion to visualization using tools like Airbyte Cloud Google BigQuery dbt and Tableau You ll also get to grips with strategies for data integrity with a focus on data quality and observability along with collaborative coding practices like version control with Git You ll learn about advanced principles like CI CD automating workflows gathering scoping and documenting business requirements as well as data governance By the end of this book you ll be armed with the essential techniques and best practices for developing scalable analytics solutions from end to end What you will learn Design and implement data pipelines from ingestion to serving data Explore best practices for data modeling and schema design Scale data processing with cloud based analytics platforms and tools Understand the principles of data quality management and data governance Streamline code base with best practices like collaborative coding version control reviews and standards Automate and orchestrate data pipelines Drive business adoption with effective scoping and prioritization of analytics use cases Who this book is for This book is for data engineers and data analysts considering pivoting their careers into analytics engineering Analytics engineers who want to upskill and search for gaps in their knowledge will also find this book helpful as will other data professionals who want to understand the value of analytics engineering in their organization s journey toward data maturity To get the most out of this book you should have a basic understanding of data analysis and engineering concepts

such as data cleaning visualization ETL and data warehousing Agile Data Warehousing for the Enterprise Ralph Hughes,2015-09-19 Building upon his earlier book that detailed agile data warehousing programming techniques for the Scrum master Ralph s latest work illustrates the agile interpretations of the remaining software engineering disciplines Requirements management benefits from streamlined templates that not only define projects quickly but ensure nothing essential is overlooked Data engineering receives two new hyper modeling techniques yielding data warehouses that can be easily adapted when requirements change without having to invest in ruinously expensive data conversion programs Quality assurance advances with not only a stereoscopic top down and bottom up planning method but also the incorporation of the latest in automated test engines Use this step by step guide to deepen your own application development skills through self study show your teammates the world s fastest and most reliable techniques for creating business intelligence systems or ensure that the IT department working for you is building your next decision support system the right way Learn how to quickly define scope and architecture before programming starts Includes techniques of process and data engineering that enable iterative and incremental delivery Demonstrates how to plan and execute quality assurance plans and includes a guide to continuous integration and automated regression testing Presents program management strategies for coordinating multiple agile data mart projects so that over time an enterprise data warehouse emerges Use the provided 120 day road map to establish a robust agile data warehousing program Agile Data Warehousing Project Management Ralph Hughes,2012-09-28 What is agile data warehousing Iterative development in a nutshell Streamlining project management Authoring better user stories Deriving initial project backlogs Developer stories for data integration Estimating and segmenting projects Adapting agile for data warehousing Starting and scaling agile data warehousing **Data Engineering for AI/ML Pipelines** Venkata Karthik Penikalapati,Mitesh Mangaonkar,2024-10-18 DESCRIPTION Data engineering is the art of building and managing data pipelines that enable efficient data flow for AI ML projects This book serves as a comprehensive guide to data engineering for AI ML systems equipping you with the knowledge and skills to create robust and scalable data infrastructure This book covers everything from foundational concepts to advanced techniques It begins by introducing the role of data engineering in AI ML followed by exploring the lifecycle of data from data generation and collection to storage and management Readers will learn how to design robust data pipelines transform data and deploy AI ML models effectively for real world applications The book also explains security privacy and compliance ensuring responsible data management Finally it explores future trends including automation real time data processing and advanced architectures providing a forward looking perspective on the evolution of data engineering By the end of this book you will have a deep understanding of the principles and practices of data engineering for AI ML You will be able to design and implement efficient data pipelines select appropriate technologies ensure data quality and security and leverage data for building successful AI ML models KEY FEATURES Comprehensive guide to building scalable AI ML data engineering

pipelines Practical insights into data collection storage processing and analysis Emphasis on data security privacy and emerging trends in AI ML WHAT YOU WILL LEARN Architect scalable data solutions for AI ML driven applications Design and implement efficient data pipelines for machine learning Ensure data security and privacy in AI ML systems Leverage emerging technologies in data engineering for AI ML Optimize data transformation processes for enhanced model performance WHO THIS BOOK IS FOR This book is ideal for software engineers ML practitioners IT professionals and students wanting to master data pipelines for AI ML It is also valuable for developers and system architects aiming to expand their knowledge of data driven technologies TABLE OF CONTENTS 1 Introduction to Data Engineering for AI ML 2 Lifecycle of AI ML Data Engineering 3 Architecting Data Solutions for AI ML 4 Technology Selection in AI ML Data Engineering 5 Data Generation and Collection for AI ML 6 Data Storage and Management in AI ML 7 Data Ingestion and Preparation for ML 8 Transforming and Processing Data for AI ML 9 Model Deployment and Data Serving 10 Security and Privacy in AI ML Data Engineering 11 Emerging Trends and Future Direction

DATA ENGINEERING IN THE AGE OF AI GENERATIVE MODELS AND DEEP LEARNING UNLEASHED Siddharth Konkimalla, MANIKANTH SARISA, MOHIT SURENDER REDDY, SANJAY BAUSKAR, The advances in data engineering technologies including big data infrastructure knowledge graphs and mechanism design will have a long lasting impact on artificial intelligence AI research and development This paper introduces data engineering in AI with a focus on the basic concepts applications and emerging frontiers As a new research field most data engineering in AI is yet to be properly defined and there are abundant problems and applications to be explored The primary purpose of this paper is to expose the AI community to this shining star of data science stimulate AI researchers to think differently and form a roadmap of data engineering for AI Since this is primarily an informal essay rather than an academic paper its coverage is limited The vast majority of the stimulating studies and ongoing projects are not mentioned in the paper

Data Engineering Best Practices Richard J. Schiller, David Larochelle, 2024-10-11 Explore modern data engineering techniques and best practices to build scalable efficient and future proof data processing systems across cloud platforms Key Features Architect and engineer optimized data solutions in the cloud with best practices for performance and cost effectiveness Explore design patterns and use cases to balance roles technology choices and processes for a future proof design Learn from experts to avoid common pitfalls in data engineering projects Purchase of the print or Kindle book includes a free PDF eBook Book Description Revolutionize your approach to data processing in the fast paced business landscape with this essential guide to data engineering Discover the power of scalable efficient and secure data solutions through expert guidance on data engineering principles and techniques Written by two industry experts with over 60 years of combined experience it offers deep insights into best practices architecture agile processes and cloud based pipelines You ll start by defining the challenges data engineers face and understand how this agile and future proof comprehensive data solution architecture addresses them As you explore the extensive toolkit mastering the capabilities of

various instruments you'll gain the knowledge needed for independent research. Covering everything you need right from data engineering fundamentals, the guide uses real-world examples to illustrate potential solutions. It elevates your skills to architect scalable data systems, implement agile development processes, and design cloud-based data pipelines. The book further equips you with the knowledge to harness serverless computing and microservices to build resilient data applications. By the end, you'll be armed with the expertise to design and deliver high-performance data engineering solutions that are not only robust, efficient, and secure but also future-ready. What you will learn: Architect scalable data solutions within a well-architected framework. Implement agile software development processes tailored to your organization's needs. Design cloud-based data pipelines for analytics, machine learning, and AI-ready data products. Optimize data engineering capabilities to ensure performance and long-term business value. Apply best practices for data security, privacy, and compliance. Harness serverless computing and microservices to build resilient, scalable, and trustworthy data pipelines. Who this book is for: If you are a data engineer, ETL developer, or big data engineer who wants to master the principles and techniques of data engineering, this book is for you. A basic understanding of data engineering concepts, ETL processes, and big data technologies is expected. This book is also for professionals who want to explore advanced data engineering practices, including scalable data solutions, agile software development, and cloud-based data processing pipelines.

Ultimate AWS Data Engineering
Rathish Mohan, Shekhar Agrawal, Srinivasa Sunil Chippada, 2025-01-23

TAGLINE Unlock the Power of AWS Data Engineering and Build Smarter Pipelines for Data-Driven Success

KEY FEATURES Gain an in-depth understanding of essential AWS services such as S3, DynamoDB, Redshift, and Glue to build scalable data solutions. Learn to design efficient, fault-tolerant data pipelines while adhering to best practices in cost management and security. Dive into real-world applications with hands-on knowledge of data replication, partitioning, orchestration, and machine learning integration.

DESCRIPTION In today's data-driven era, mastering AWS data engineering is key to building scalable, secure pipelines that drive innovation and decision-making. Ultimate AWS Data Engineering is your comprehensive guide to mastering the art of building robust, cost-effective, and fault-tolerant data pipelines on AWS. Designed for data professionals and enthusiasts, this book begins with foundational concepts and progressively explores advanced techniques, equipping you with the skills to tackle real-world challenges. Throughout the chapters, you'll dive deep into the core principles of data replication, partitioning, and load balancing while gaining hands-on experience with AWS services like S3, DynamoDB, Redshift, and Glue. Learn to design resilient data architectures, optimize performance, and ensure seamless data transformation, all while adhering to best practices in cost efficiency and security. Whether you aim to streamline your organization's data flow, enhance your cloud expertise, or future-proof your career in data engineering, this comprehensive guide offers the practical knowledge and insights you need to succeed. By the end, you will be ready to craft impactful data-driven solutions on AWS with confidence and expertise.

WHAT WILL YOU LEARN Design scalable data pipelines using core AWS data engineering tools. Master data replication, partitioning,

and sharding techniques on AWS Build fault tolerant architectures with AWS scalability and reliability Optimize data storage and processing with Redshift S3 and Glue Implement secure cost effective workflows for real world data challenges Integrate machine learning into pipelines with SageMaker and AWS AI tools WHO IS THIS BOOK FOR This book is tailored for aspiring and experienced data engineers cloud architects and IT professionals aiming to master AWS data engineering Whether you are new to the field or looking to enhance your expertise this comprehensive guide equips you with the skills to design implement and optimize scalable data solutions on AWS TABLE OF CONTENTS 1 Unveiling the Secrets of Data Engineering 2 Architecting for Scalability Data Replication Techniques 3 Partitioning and Sharding Optimizing Data Management 4 Ensuring Consistency Consensus Mechanisms and Models 5 Balancing the Load Achieving Performance and Efficiency 6 Building Fault Tolerant Architectures 7 Exploring the Realm of AWS Data Storage Services 8 Orchestrating Data Flow 9 Advanced Data Pipelines and Transformation 10 Data Warehousing Demystified 11 Visualizing the Unseen 12 AWS Machine Learning Classic AI to Generative AI 13 Advanced Data Engineering with AWS Index **Engineering Agile Big-Data**

Systems Kevin Feeney,Jim Davies,James Welch,2022-09-01 To be effective data intensive systems require extensive ongoing customisation to reflect changing user requirements organisational policies and the structure and interpretation of the data they hold Manual customisation is expensive time consuming and error prone In large complex systems the value of the data can be such that exhaustive testing is necessary before any new feature can be added to the existing design In most cases the precise details of requirements policies and data will change during the lifetime of the system forcing a choice between expensive modification and continued operation with an inefficient design Engineering Agile Big Data Systems outlines an approach to dealing with these problems in software and data engineering describing a methodology for aligning these processes throughout product lifecycles It discusses tools which can be used to achieve these goals and in a number of case studies shows how the tools and methodology have been used to improve a variety of academic and business systems

Advanced Research in Technologies, Information, Innovation and Sustainability Teresa Guarda,Filipe Portela,Gustavo Gatica,2025-03-12 This three volume set CCIS 2345 2347 constitutes the revised selected papers from the 4th International Conference on Advanced Research in Technologies Information Innovation and Sustainability 2024 ARTIIS 2024 held in Santiago de Chile Chile during October 21 23 2024 The 83 full papers and 8 short papers included in these proceedings were carefully reviewed and selected from 238 submissions These papers are categorized under the following topical sections Part I Computing Solutions Part II Data Intelligence Part III Sustainability Ethics Security and Privacy Introduction to Data Platforms Anthony David Giordano,2022-11-03 Digital cloud and artificial intelligence AI have disrupted how we use data This disruption has changed the way we need to provision curate and publish data for the multiple use cases in today s technology driven environment This text will cover how to design develop and evolve a data platform for all the uses of enterprise data needed in today s digital organization This book focuses on explaining what a data platform is what value it

provides how is it engineered and how to deploy a data platform and support organization In this context Introduction to Data Platforms reviews the current requirements for data in the digital age and quantifies the use cases discusses the evolution of data over the past twenty years which is a core driver of the modern data platform defines what a data platform is and defines the architectural components and layers of a data platform provides the architectural layers or capabilities of a data platform reviews cloud and commercial software vendors that populate the data platform space provides a step by step approach to engineering deploying supporting and evolving a data platform environment provides a step by step approach to migrating legacy data warehouses data marts and data lakes sandboxes to a data platform and reviews organizational structures for managing data platform environments Data Architecture: A Primer for the Data Scientist W.H.

Inmon,Daniel Linstedt,2014-11-26 Today the world is trying to create and educate data scientists because of the phenomenon of Big Data And everyone is looking deeply into this technology But no one is looking at the larger architectural picture of how Big Data needs to fit within the existing systems data warehousing systems Taking a look at the larger picture into which Big Data fits gives the data scientist the necessary context for how pieces of the puzzle should fit together Most references on Big Data look at only one tiny part of a much larger whole Until data gathered can be put into an existing framework or architecture it can t be used to its full potential Data Architecture a Primer for the Data Scientist addresses the larger architectural picture of how Big Data fits with the existing information infrastructure an essential topic for the data scientist Drawing upon years of practical experience and using numerous examples and an easy to understand framework W H Inmon and Daniel Linstedt define the importance of data architecture and how it can be used effectively to harness big data within existing systems You ll be able to Turn textual information into a form that can be analyzed by standard tools Make the connection between analytics and Big Data Understand how Big Data fits within an existing systems environment Conduct analytics on repetitive and non repetitive data Discusses the value in Big Data that is often overlooked non repetitive data and why there is significant business value in using it Shows how to turn textual information into a form that can be analyzed by standard tools Explains how Big Data fits within an existing systems environment Presents new opportunities that are afforded by the advent of Big Data Demystifies the murky waters of repetitive and non repetitive data in Big Data

Data Virtualization for Business Intelligence Systems Rick van der Lans,2012-07-25 Annotation In this book Rick van der Lans explains how data virtualization servers work what techniques to use to optimize access to various data sources and how these products can be applied in different projects **Building a Scalable Data Warehouse with Data Vault 2.0**

Daniel Linstedt,Michael Olschimke,2015-09-15 The Data Vault was invented by Dan Linstedt at the U S Department of Defense and the standard has been successfully applied to data warehousing projects at organizations of different sizes from small to large size corporations Due to its simplified design which is adapted from nature the Data Vault 2 0 standard helps prevent typical data warehousing failures Building a Scalable Data Warehouse covers everything one needs to know to create

a scalable data warehouse end to end including a presentation of the Data Vault modeling technique which provides the foundations to create a technical data warehouse layer The book discusses how to build the data warehouse incrementally using the agile Data Vault 2.0 methodology In addition readers will learn how to create the input layer the stage layer and the presentation layer data mart of the Data Vault 2.0 architecture including implementation best practices Drawing upon years of practical experience and using numerous examples and an easy to understand framework Dan Linstedt and Michael Olschimke discuss How to load each layer using SQL Server Integration Services SSIS including automation of the Data Vault loading processes Important data warehouse technologies and practices Data Quality Services DQS and Master Data Services MDS in the context of the Data Vault architecture Provides a complete introduction to data warehousing applications and the business context so readers can get up and running fast Explains theoretical concepts and provides hands on instruction on how to build and implement a data warehouse Demystifies data vault modeling with beginning intermediate and advanced techniques Discusses the advantages of the data vault approach over other techniques also including the latest updates to Data Vault 2.0 and multiple improvements to Data Vault 1.0

Mastering Big Data Engineering: AWS, GCP, & Azure Showdown Muthuraman Saminathan, 2024-02-16 In the rapidly evolving field of AI operationalizing large language models LLMs has become a defining challenge The LLMOps Advantage Navigating the Future of AI is your comprehensive guide to mastering the deployment monitoring and scaling of LLMs in real world applications This book bridges the gap between model development and production introducing readers to the specialized domain of LLMOps a subset of MLOps tailored to the unique demands of large language models From building scalable pipelines and optimizing inference workflows to ensuring compliance and security this guide covers every aspect of operationalizing LLMs Explore deployment strategies across platforms like AWS Azure GCP and Hugging Face learn about containerization and serverless architectures and dive into tools for monitoring and observability such as Prometheus and Grafana Through practical frameworks and case studies the book provides actionable insights into managing performance metrics addressing model drift and leveraging distributed systems for scalability Designed for data scientists LLM engineers and AI practitioners The LLMOps Advantage also delves into ethical considerations emerging trends like multi modal models and best practices for integrating LLMs with existing workflows Whether you're fine tuning models for specific tasks or scaling solutions to meet enterprise needs this book equips you with the expertise to harness the full potential of LLMs Stay ahead in the AI revolution with The LLMOps Advantage your essential roadmap to mastering the future of large language model operations

Big Data Infrastructure Technologies for Data Analytics Yuri Demchenko, Juan J. Cuadrado-Gallego, Oleg Chertov, Marharyta Aleksandrova, 2024-10-25 This book provides a comprehensive overview and introduction to Big Data Infrastructure technologies existing cloud based platforms and tools for Big Data processing and data analytics combining both a conceptual approach in architecture design and a practical approach in technology selection

and project implementation Readers will learn the core functionality of major Big Data Infrastructure components and how they integrate to form a coherent solution with business benefits Specific attention will be given to understanding and using the major Big Data platform Apache Hadoop ecosystem its main functional components MapReduce HBase Hive Pig Spark and streaming analytics The book includes topics related to enterprise and research data management and governance and explains modern approaches to cloud and Big Data security and compliance The book covers two knowledge areas defined in the EDISON Data Science Framework EDSF Data Science Engineering and Data Management and Governance and can be used as a textbook for university courses or provide a basis for practitioners for further self study and practical use of Big Data technologies and competent evaluation and implementation of practical projects in their organizations

Neutrosophic Sets and Systems, vol. 17/2017 Yingcang Ma, S. Broumi, Xiaohong Zhang, Evelyn Jazmín Henríquez Antepara, Surapati Pramanik, Florentin Smarandache, Wilmer Ortiz Choez, Qiang Guo, Neutrosophic Sets and Systems has been created for publications on advanced studies in neutrosophy neutrosophic set neutrosophic logic neutrosophic probability neutrosophic statistics that started in 1995 and their applications in any field such as the neutrosophic structures developed in algebra geometry topology etc *Hybrid Intelligent Systems* Anu Bajaj, Pooja Manghirmalani Mishra, Ajith Abraham, 2025-07-14 This book presents 48 selected papers focused on Information and Network Security from the 23rd International Conference on Hybrid Intelligent Systems and 19th International Conference on Information Assurance and Security IAS 2023 which was held in five different cities namely Olten Switzerland Porto Portugal Kaunas Lithuania Greater Noida India Kochi India and in online mode The 23rd International Conference on Hybrid Intelligent Systems HIS 2023 was focusing on synergistic combinations of multiple approaches to develop the next generation of intelligent systems HIS IAS 2023 had contributions by authors from 44 countries This book offers a valuable reference guide for all network and security specialists scientists academicians researchers students and practitioners in the field of artificial intelligence and information network security

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Better Data Modeling An Introduction To Agile Data Engineering Using Data Vault Introduction

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