Free ebook Healthcare analytics solutions [PDF]

Big Data Analytics with Hadoop 3 Building Big Data and Analytics Solutions in the Cloud Fundamentals of Analytics Engineering Data Lake Analytics on Microsoft Azure Embedded Analytics Simplify Big Data Analytics with Amazon EMR Mastering Azure Analytics Exam Ref DP-500 Designing and Implementing Enterprise-Scale Analytics Solutions Using Microsoft Azure and Microsoft Power BI Google Analytics Understanding Azure Data Factory 2021 Hybrid Analytics Solution using IBM DB2 Analytics Accelerator for z/OS V3.1 Pro Salesforce Analytics Cloud Azure Databricks Cookbook CABology: Value of Cloud, Analytics and Big Data Trio Wave Big Data Analytics Unstructured Data Analytics Stream Analytics with Microsoft Azure Getting Started with Business Analytics Architecting Solutions with SAP Business Technology Platform Analytics for the Internet of Things Limitless Analytics with Azure Synapse Analytics Engineering with SQL and dbt High-Performance Big-Data Analytics Predictive Analytics with Microsoft Azure Machine Learning Data Analytics and Big Data Statistical Data Analytics 552242A Operationalize Cloud Analytics Solutions with Microsoft Azure Pervasive Intelligence Now Analytics for Business Success Web Analytics 2.0 Data Analytics for Business Predictive Analytics and Data Mining Embedded Analytics Analytics Best Practices Guide to Industrial Analytics TIBCO Spotfire: A Comprehensive Primer Strategic Blueprint for Enterprise Analytics Data Analytics for IT Networks Modeling Techniques in Predictive Analytics

Big Data Analytics with Hadoop 3

2018-05-31

explore big data concepts platforms analytics and their applications using the power of hadoop 3 key features learn hadoop 3 to build effective big data analytics solutions on premise and on cloud integrate hadoop with other big data tools such as r python apache spark and apache flink exploit big data using hadoop 3 with real world examples book description apache hadoop is the most popular platform for big data processing and can be combined with a host of other big data tools to build powerful analytics solutions big data analytics with hadoop 3 shows you how to do just that by providing insights into the software as well as its benefits with the help of practical examples once you have taken a tour of hadoop 3 s latest features you will get an overview of hdfs mapreduce and yarn and how they enable faster more efficient big data processing you will then move on to learning how to integrate hadoop with the open source tools such as python and r to analyze and visualize data and perform statistical computing on big data as you get acquainted with all this you will explore how to use hadoop 3 with apache spark and apache flink for real time data analytics and stream processing in addition to this you will understand how to use hadoop to build analytics solutions on the cloud and an end to end pipeline to perform big data analysis using practical use cases by the end of this book you will be well versed with the analytical capabilities of the hadoop ecosystem you will be able to build powerful solutions to perform big data analytics and get insight effortlessly what you will learn explore the new features of hadoop 3 along with hdfs yarn and mapreduce get well versed with the analytical capabilities of hadoop ecosystem using practical examples integrate hadoop with r and python for more efficient big data processing learn to use hadoop with apache spark and apache flink for real time data analytics set up a hadoop cluster on aws cloud perform big data analytics on aws using elastic map reduce who this book is for big data analytics with hadoop 3 is for you if you are looking to build high performance analytics solutions for your enterprise or business using hadoop 3 s powerful features or you re new to big data analytics a basic understanding of the java programming language is required

Building Big Data and Analytics Solutions in the Cloud

2014-12-08

big data is currently one of the most critical emerging technologies organizations around the world are looking to exploit the explosive growth of data to unlock previously hidden insights in the hope of creating new revenue streams gaining operational efficiencies and obtaining greater understanding of customer needs it is important to think of big data and analytics together big data is the term used to describe the recent explosion of different types of data from disparate sources analytics is about examining data to derive interesting and relevant trends and patterns which can be used to inform decisions optimize processes and even drive new business models with today s deluge of data comes the problems of processing that data obtaining the correct skills to manage and analyze that data and establishing rules to govern the data s use and distribution the big data technology stack is ever growing and sometimes confusing even more so when we add the complexities of setting up big data environments with large up front investments cloud computing seems to be a perfect vehicle for hosting big data workloads however working on big data in the cloud brings its own challenge of reconciling two contradictory design principles cloud computing is based on the concepts of consolidation and resource pooling but big data systems such as hadoop are built on the shared nothing principle where each node is independent and self sufficient a solution architecture that can allow these mutually exclusive principles to coexist is required to truly exploit the elasticity and ease of use of cloud computing for big data environments this ibm redpapertm publication is aimed at chief architects line of business executives and cios to provide an understanding of the cloud related challenges they face and give prescriptive guidance for how to realize the benefits of big data solutions quickly and cost effectively

Fundamentals of Analytics Engineering

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 descriptionnavigate the world of data analytics with fundamentals of analytics engineering guiding you from foundational concepts to advanced techniques of data ingestion and warehousing data lakehouse and data modeling written by a team of 7 industry experts this book helps you to transform raw data into structured insights you ll discover how to clean filter aggregate and reformat data and seamlessly serve it across diverse platforms with practical guidance you ll also learn how to build a simple data platform using airbyte for ingestion google bigquery for warehousing dbt for transformations and tableau for visualization from data quality and observability to fostering collaboration on codebases you ll find effective strategies for ensuring data integrity and driving collaborative success as you advance you ll become well versed with the ci cd principles for automated code building testing and deployment laying the foundation for consistent and reliable pipelines with invaluable insights into gathering business requirements documenting complex business logic and the importance of data governance you ll develop a holistic understanding of the analytics lifecycle 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 gain insights into the use of cloud based analytics platforms and tools for scalable data processing understand the principles of data governance and collaborative coding comprehend data quality management in analytics engineering gain practical skills in using analytics engineering tools to conquer real world data challenges 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

Data Lake Analytics on Microsoft Azure

2020-11-15

get a 360 degree view of how the journey of data analytics solutions has evolved from monolithic data stores and enterprise data warehouses to data lakes and modern data warehouses you will this book includes comprehensive coverage of how to architect data lake analytics solutions by choosing suitable technologies available on microsoft azure the advent of microservices applications covering ecommerce or modern solutions built on iot and how real time streaming data has completely disrupted this ecosystem these data analytics solutions have been transformed from solely understanding the trends from historical data to building predictions by infusing machine learning technologies into the solutions data platform professionals who have been working on relational data stores non relational data stores and big data technologies will find the content in this book useful the book also can help you start your journey into the data engineer world as it provides an overview of advanced data analytics and touches on data science concepts and various artificial intelligence and machine learning technologies available on microsoft azure what will you learn you will understand the concepts of data lake analytics the modern data warehouse and advanced data analytics architecture patterns of the modern data warehouse and advanced data analytics solutions phases such as data ingestion store prep and train and model and serve of data analytics solutions and technology choices available on azure under each phase in depth coverage of real time and batch mode data analytics solutions architecture various managed services available on azure such as synapse analytics event hubs stream analytics cosmosdb and managed hadoop services such as databricks and hdinsight who this book is for data platform professionals database architects engineers and solution architects

Embedded Analytics

2023-05-15

over the past 10 years data analytics and data visualization have become essential components of an enterprise information strategy and yet the adoption of data analytics has remained remarkably static reaching no more than 30 of potential users this book explores the most important techniques for taking that adoption further embedding analytics into the workflow of our everyday operations authors donald farmer and jim horbury show business users how to improve decision making without becoming analytics specialists you ll explore different techniques for exchanging data insights and events between analytics platforms and

hosting applications you ll also examine issues including data governance and regulatory compliance and learn best practices for deploying and managing embedded analytics at scale learn how data analytics improves business decision making and performance explore advantages and disadvantages of different embedded analytics platforms develop a strategy for embedded analytics in an organization or product define the architecture of an embedded solution select vendors platforms and tools to implement your architecture hire or train developers and architects to build the embedded solutions you need understand how embedded analytics interacts with traditional analytics

Simplify Big Data Analytics with Amazon EMR

2022-03-25

design scalable big data solutions using hadoop spark and aws cloud native services key featuresbuild data pipelines that require distributed processing capabilities on a large volume of datadiscover the security features of emr such as data protection and granular permission managementexplore best practices and optimization techniques for building data analytics solutions in amazon emrbook description amazon emr formerly amazon elastic mapreduce provides a managed hadoop cluster in amazon services aws that you can use to implement batch or streaming data pipelines by gaining expertise in amazon emr you can design and implement data analytics pipelines with persistent or transient emr clusters in aws this book is a practical guide to amazon emr for building data pipelines you ll start by understanding the amazon emr architecture cluster nodes features and deployment options along with their pricing next the book covers the various big data applications that emr supports you ll then focus on the advanced configuration of emr applications hardware networking security troubleshooting logging and the different sdks and apis it provides later chapters will show you how to implement common amazon emr use cases including batch etl with spark real time streaming with spark streaming and handling upsert in s3 data lake with apache hudi finally you ll orchestrate your emr jobs and strategize on premises hadoop cluster migration to emr in addition to this you ll explore best practices and cost optimization techniques while implementing your data analytics pipeline in emr by the end of this book you ll be able to build and deploy hadoop or spark based apps on amazon emr and also migrate your existing on premises

hadoop workloads to aws what you will learnexplore amazon emr features architecture hadoop interfaces and emr studioconfigure deploy and orchestrate hadoop or spark jobs in productionimplement the security data governance and monitoring capabilities of emrbuild applications for batch and real time streaming data analytics solutionsperform interactive development with a persistent emr cluster and notebookorchestrate an emr spark job using aws step functions and apache airflowwho this book is for this book is for data engineers data analysts data scientists and solution architects who are interested in building data analytics solutions with the hadoop ecosystem services and amazon emr prior experience in either python programming scala or the java programming language and a basic understanding of hadoop and aws will help you make the most out of this book

Mastering Azure Analytics

2017-04-06

microsoft azure has over 20 platform as a service paas offerings that can act in support of a big data analytics solution so which one is right for your project this practical book helps you understand the breadth of azure services by organizing them into a reference framework you can use when crafting your own big data analytics solution you ll not only be able to determine which service best fits the job but also learn how to implement a complete solution that scales provides human fault tolerance and supports future needs understand the fundamental patterns of the data lake and lambda architecture recognize the canonical steps in the analytics data pipeline and learn how to use azure data factory to orchestrate them implement data lakes and lambda architectures using azure data lake store data lake analytics hdinsight including spark stream analytics sql data warehouse and event hubs understand where azure machine learning fits into your analytics pipeline gain experience using these services on real world data that has real world problems with scenarios ranging from aviation to internet of things iot

Exam Ref DP-500 Designing and Implementing Enterprise-Scale Analytics

Solutions Using Microsoft Azure and Microsoft Power BI

2023-07-09

prepare for microsoft exam dp 500 and demonstrate your real world ability to design create and deploy enterprise scale data analytics solutions designed for business intelligence developers architects data analysts and other professionals this exam ref focuses on the critical thinking and decision making acumen needed for success at the microsoft certified azure enterprise data analyst associate level focus on the expertise measured by these objectives implement and manage a data analytics environment query and transform data implement and manage data models explore and visualize data this microsoft exam ref organizes its coverage by exam objectives features strategic what if scenarios to challenge you assumes you are a business intelligence developer architect data engineer data architect data analyst or another professional with power bi and azure experience about the exam exam dp 500 focuses on knowledge needed to govern and administer data analytics environments integrate analytics platforms into existing it infrastructure manage the analytics development lifecycle query data with azure synapse analytics ingest and transform data with power bi design and build tabular models optimize enterprise scale data models explore data with azure synapse analytics and visualize data with power bi about microsoft certification passing this exam fulfills your requirements for the microsoft certified azure enterprise data analyst associate certification demonstrating your knowledge of designing creating and deploying enterprise scale data analytics solutions responsibilities include performing advanced data analytics at scale collecting enterprise level requirements for data analytics solutions that include azure and microsoft power bi advising on data governance and configuration for power bi administration monitoring data usage and optimizing solution performance see full details at microsoft com learn

Google Analytics

2007-08-30

analytics is the process of measuring your web site analyzing the data and making changes based on the analysis many businesses are just starting to learn how they can increase the performance of their web

site by using web analytics for many people their first exposure to web analytics is google analytics a free tool available to everyone although analysis is vital to web analytics you can t do analysis without good data configuring google analytics correctly is the key to collecting good data this short cut provides a thorough description of how the google analytics system works information about many different types of implementations and ways to avoid common pitfalls it also shares some best practices to get your setup correct the first time

Understanding Azure Data Factory

2018-12-18

improve your analytics and data platform to solve major challenges including operationalizing big data and advanced analytics workloads on azure you will learn how to monitor complex pipelines set alerts and extend your organization s custom monitoring requirements this book starts with an overview of the azure data factory as a hybrid etl elt orchestration service on azure the book then dives into data movement and the connectivity capability of azure data factory you will learn about the support for hybrid data integration from disparate sources such as on premise cloud or from saas applications detailed guidance is provided on how to transform data and on control flow demonstration of operationalizing the pipelines and etl with ssis is included you will know how to leverage azure data factory to run existing ssis packages as you advance through the book you will wrap up by learning how to create a single pane for end to end monitoring which is a key skill in building advanced analytics and big data pipelines what you ll learnunderstand data integration on azure cloudbuild and operationalize an adf pipelinemodernize a data warehousebe aware of performance and security considerations while moving data who this book is fordata engineers and big data developers etl extract transform load developers also will find the book useful in demonstrating various operations

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2019-03-15

 google analytics web web google analytics

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Hybrid Analytics Solution using IBM DB2 Analytics Accelerator for z/OS V3.1

2013-09-27

the ibm db2 analytics accelerator version 3 1 for ibm z os simply called accelerator in this book is a union of the ibm system z quality of service and ibm netezza technology to accelerate complex queries in a db2 for z os highly secure and available environment superior performance and scalability with rapid appliance deployment provide an ideal solution for complex analysis in this ibm redbooks publication we provide technical decision makers with a broad understanding of the benefits of version 3 1 of the accelerator s major new functions we describe their installation and the advantages to existing analytical processes as measured in our test environment we also describe the ibm zenterprise analytics system 9700 a hybrid system z solution offering that is surrounded by a complete set of optional packs to enable customers to custom tailor the system to their unique needs

Pro Salesforce Analytics Cloud

2015-12-31

in this age of data economy data analytics is recognized as a key differentiator for companies trying to gain a sustainable competitive advantage and outperform their peers however the complexity of establishing an analytical architecture due to a wide array of disparate technical capabilities offered by a plethora of vendors makes the deployment of an on premise solution a daunting task for this reason the salesforce analytics cloud has captured the imagination from of both it and business communities the salesforce analytics cloud represents the rethinking of analytics for the business user the analytics cloud is a cloud based platform designed for the business user to have access to analytics on the go providing answers to questions instantly on any device this mobile ready capability of the salesforce analytics cloud means users can immediately collaborate and share insights with team members right inside salesforce pro salesforce analytics cloud provides actionable guidance on creating analytical capabilities using salesforce analytics cloud the book offers pullia practical guide to salesforce

analytics cloud including wave platform builder and explorer lilidetailed business analytics use cases in various industries e g retail healthcare financial services and telecommunications liliarchitecture and best practices for integration security hybrid cloud coexistence and governance li ulpempro sal p em pesforce analytics cloud emis the first comprehensive book on salesforce analytics and provides a holistic architecture view of different analytical capabilities and how they fit into the overall information architecture it features real world industry use cases and demonstrates how salesforce s analytics cloud solves business challenges and brings real value to the organization

Azure Databricks Cookbook

2021-09-17

get to grips with building and productionizing end to end big data solutions in azure and learn best practices for working with large datasets key featuresintegrate with azure synapse analytics cosmos db and azure hdinsight kafka cluster to scale and analyze your projects and build pipelinesuse databricks sql to run ad hoc queries on your data lake and create dashboardsproductionize a solution using ci cd for deploying notebooks and azure databricks service to various environmentsbook description azure databricks is a unified collaborative platform for performing scalable analytics in an interactive environment the azure databricks cookbook provides recipes to get hands on with the analytics process including ingesting data from various batch and streaming sources and building a modern data warehouse the book starts by teaching you how to create an azure databricks instance within the azure portal azure cli and arm templates you ll work through clusters in databricks and explore recipes for ingesting data from sources including files databases and streaming sources such as apache kafka and eventhub the book will help you explore all the features supported by azure databricks for building powerful end to end data pipelines you ll also find out how to build a modern data warehouse by using delta tables and azure synapse analytics later you ll learn how to write ad hoc queries and extract meaningful insights from the data lake by creating visualizations and dashboards with databricks sql finally you ll deploy and productionize a data pipeline as well as deploy notebooks and azure databricks service using continuous integration and continuous delivery ci cd by the end of this azure book you ll be able to use azure databricks to streamline different processes involved in building data driven apps what you will learnread and write data from and to various azure

resources and file formatsbuild a modern data warehouse with delta tables and azure synapse analyticsexplore jobs stages and tasks and see how spark lazy evaluation workshandle concurrent transactions and learn performance optimization in delta tableslearn databricks sql and create real time dashboards in databricks sqlintegrate azure devops for version control deploying and productionizing solutions with ci cd pipelinesdiscover how to use rbac and acls to restrict data accessbuild end to end data processing pipeline for near real time data analyticswho this book is for this recipe based book is for data scientists data engineers big data professionals and machine learning engineers who want to perform data analytics on their applications prior experience of working with apache spark and azure is necessary to get the most out of this book

CABology: Value of Cloud, Analytics and Big Data Trio Wave

2018-06-22

this uniquely accessible book helps readers use cabology to solve real world business problems and drive real competitive advantage it provides reliable concise information on the real benefits usage and operationalization aspects of utilizing the trio wave of cloud analytic and big data anyone who thinks that the game changing technology is slow paced needs to think again this book opens readers eyes to the fact that the dynamics of global technology and business are changing moreover it argues that businesses must transform themselves in alignment with the trio wave if they want to survive and excel in the future cabology focuses on the art and science of optimizing the business goals to deliver true value and benefits to the customer through cloud analytic and big data it offers business of all sizes a structured and comprehensive way of discovering the real benefits usage and operationalization aspects of utilizing the trio wave

Big Data Analytics

2013-08-23

big data analytics will assist managers in providing an overview of the drivers for introducing big data technology into the organization and for understanding the types of business problems best suited to big data

analytics solutions understanding the value drivers and benefits strategic planning developing a pilot and eventually planning to integrate back into production within the enterprise guides the reader in assessing the opportunities and value proposition overview of big data hardware and software architectures presents a variety of technologies and how they fit into the big data ecosystem

Unstructured Data Analytics

2018-03-13

turn unstructured data into valuable business insight unstructured data analytics provides an accessible non technical introduction to the analysis of unstructured data written by global experts in the analytics space this book presents unstructured data analysis uda concepts in a practical way highlighting the broad scope of applications across industries companies and business functions the discussion covers key aspects of uda implementation beginning with an explanation of the data and the information it provides then moving into a holistic framework for implementation case studies show how real world companies are leveraging uda in security and customer management and provide clear examples of both traditional business applications and newer more innovative practices roughly 80 percent of today s data is unstructured in the form of emails chats social media audio and video these data assets contain a wealth of valuable information that can be used to great advantage but accessing that data in a meaningful way remains a challenge for many companies this book provides the baseline knowledge and the practical understanding companies need to put this data to work supported by research with several industry leaders and packed with frontline stories from leading organizations such as google amazon spotify linkedin pfizer manulife axa monster worldwide under armour the houston rockets dell ibm and sas institute this book provide a framework for building and implementing a successful uda center of excellence you will learn how to increase customer acquisition and customer retention with uda the power of uda for fraud detection and prevention the power of uda in human capital management human resource the power of uda in health care and medical research the power of uda in national security the power of uda in legal services the power of uda for product development the power of uda in sports the future of uda from small businesses to large multinational organizations unstructured data provides the opportunity to gain consumer information straight from the source data is only as valuable as it is

useful and a robust effective uda strategy is the first step toward gaining the full advantage unstructured data analytics lays this space open for examination and provides a solid framework for beginning meaningful analysis

Stream Analytics with Microsoft Azure

2017-12-01

develop and manage effective real time streaming solutions by leveraging the power of microsoft azure about this book analyze your data from various sources using microsoft azure stream analytics develop manage and automate your stream analytics solution with microsoft azure a practical guide to real time event processing and performing analytics on the cloud who this book is for if you are looking for a resource that teaches you how to process continuous streams of data in real time this book is what you need a basic understanding of the concepts in analytics is all you need to get started with this book what you will learn perform real time event processing with azure stream analysis incorporate the features of big data lambda architecture pattern in real time data processing design a streaming pipeline for storage and batch analysis implement data transformation and computation activities over stream of events automate your streaming pipeline using powershell and the net sdk integrate your streaming pipeline with popular machine learning and predictive analytics modelling algorithms monitor and troubleshoot your azure streaming jobs effectively in detail microsoft azure is a very popular cloud computing service used by many organizations around the world its latest analytics offering stream analytics allows you to process and get actionable insights from different kinds of data in real time this book is your guide to understanding the basics of how azure stream analytics works and building your own analytics solution using its capabilities you will start with understanding what stream analytics is and why it is a popular choice for getting real time insights from data then you will be introduced to azure stream analytics and see how you can use the tools and functions in azure to develop your own streaming analytics over the course of the book you will be given comparative analytic guidance on using azure streaming with other microsoft data platform resources such as big data lambda architecture integration for real time data analysis and differences of scenarios for architecture designing with azure hdinsight hadoop clusters with storm or stream analytics the book also shows you how you can manage monitor and scale your solution for

optimal performance by the end of this book you will be well versed in using azure stream analytics to develop an efficient analytics solution that can work with any type of data style and approach a comprehensive guidance on developing real time event processing with azure stream analysis

Getting Started with Business Analytics

2013-03-26

assuming no prior knowledge or technical skills getting started with business analytics insightful decision making explores the contents capabilities and applications of business analytics it bridges the worlds of business and statistics and describes business analytics from a non commercial standpoint the authors demystify the main concepts and terminologies and give many examples of real world applications the first part of the book introduces business data and recent technologies that have promoted fact based decision making the authors look at how business intelligence differs from business analytics they also discuss the main components of a business analytics application and the various requirements for integrating business with analytics the second part presents the technologies underlying business analytics data mining and data analytics the book helps you understand the key concepts and ideas behind data mining and shows how data mining has expanded into data analytics when considering new types of data such as network and text data the third part explores business analytics in depth covering customer social and operational analytics each chapter in this part incorporates hands on projects based on publicly available data helping you make sound decisions based on hard data this self contained guide provides an integrated framework for data mining in business analytics it takes you on a journey through this data rich world showing you how to deploy business analytics solutions in your organization

Architecting Solutions with SAP Business Technology Platform

2022-10-28

a practical handbook packed with expert advice on architectural considerations for designing solutions using sap btp to drive digital innovation purchase of the print or kindle book includes a free ebook in

the pdf format key featuresguide your customers with proven architectural strategies and considerations on sap btptackle challenges in building process and data integration across complex and hybrid landscapesdiscover sap btp services including visualizations practical business scenarios and morebook description sap btp is the foundation of sap s intelligent and sustainable enterprise vision for its customers it s efficient agile and an enabler of innovation it s technically robust yet its superpower is its business centricity if you re involved in building it and business strategies it s essential to familiarize yourself with sap btp to see the big picture for digitalization with sap solutions similarly if you have design responsibilities for enterprise solutions learning sap btp is crucial to produce effective and complete architecture designs this book teaches you about sap btp in five parts first you ll see how sap btp is positioned in the intelligent enterprise in the second part you ll learn the foundational elements of sap btp and find out how it operates the next part covers integration architecture guidelines integration strategy considerations and integration styles with sap s integration technologies later you ll learn how to use application development capabilities to extend enterprise solutions for innovation and agility this part also includes digital experience and process automation capabilities the last part covers how sap btp can facilitate data to value use cases to produce actionable business insights by the end of this sap book you ll be able to architect solutions using sap btp to deliver high business value what you will learnexplore value propositions and business processes enabled by sap s intelligent and sustainable enterpriseunderstand sap btp s foundational elements such as commercial and account modelsdiscover services that can be part of solution designs to fulfill non functional requirementsget to grips with integration and extensibility services for building robust solutionsunderstand what sap btp offers for digital experience and process automationexplore data to value services that can help manage data and build analytics use caseswho this book is for this sap guide is for technical architects solutions architects and enterprise architects working with sap solutions to drive digital transformation and innovation with sap btp some it background and an understanding of basic cloud concepts is assumed working knowledge of the sap ecosystem will also be beneficial

Analytics for the Internet of Things

2015-11-13

leverage the azure analytics platform s key analytics services to deliver

unmatched intelligence for your data key featureslearn to ingest prepare manage and serve data for immediate business requirementsbring enterprise data warehousing and big data analytics together to gain insights from your datadevelop end to end analytics solutions using azure synapsebook description azure synapse analytics which microsoft describes as the next evolution of azure sql data warehouse is a limitless analytics service that brings enterprise data warehousing and big data analytics together with this book you ll learn how to discover insights from your data effectively using this platform the book starts with an overview of azure synapse analytics its architecture and how it can be used to improve business intelligence and machine learning capabilities next you ll go on to choose and set up the correct environment for your business problem you ll also learn a variety of ways to ingest data from various sources and orchestrate the data using transformation techniques offered by azure synapse later you ll explore how to handle both relational and non relational data using the sql language as you progress you ll perform real time streaming and execute data analysis operations on your data using various languages before going on to apply ml techniques to derive accurate and granular insights from data finally you ll discover how to protect sensitive data in real time by using security and privacy features by the end of this azure book you ll be able to build end to end analytics solutions while focusing on data prep data management data warehousing and ai tasks what you will learnexplore the necessary considerations for data ingestion and orchestration while building analytical pipelinesunderstand pipelines and activities in synapse pipelines and use them to construct end to end data driven workflowsquery data using various coding languages on azure synapsefocus on synapse sql and synapse sparkmanage and monitor resource utilization and query activity in azure synapseconnect power bi workspaces with azure synapse and create or modify reports directly from synapse studiocreate and manage ip firewall rules in azure synapsewho this book is for this book is for data architects data scientists data engineers and business analysts who are looking to get up and running with the azure synapse analytics platform basic knowledge of data warehousing will be beneficial to help you understand the concepts covered in this book more effectively

Limitless Analytics with Azure Synapse

2021-06-18

with the shift from data warehouses to data lakes data now lands in

repositories before it s been transformed enabling engineers to model raw data into clean well defined datasets dbt data build tool helps you take data further this practical book shows data analysts data engineers bi developers and data scientists how to create a true self service transformation platform through the use of dynamic sql authors rui machado from monstarlab and hélder russa from jumia show you how to quickly deliver new data products by focusing more on value delivery and less on architectural and engineering aspects if you know your business well and have the technical skills to model raw data into clean well defined datasets you ll learn how to design and deliver data models without any technical influence with this book you ll learn what dbt is and how a dbt project is structured how dbt fits into the data engineering and analytics worlds how to collaborate on building data models the main tools and architectures for building useful functional data models how to fit dbt into data warehousing and laking architecture how to build tests for data transformations

Analytics Engineering with SQL and dbt

2023-12-08

this book presents a detailed review of high performance computing infrastructures for next generation big data and fast data analytics features includes case studies and learning activities throughout the book and self study exercises in every chapter presents detailed case studies on social media analytics for intelligent businesses and on big data analytics bda in the healthcare sector describes the network infrastructure requirements for effective transfer of big data and the storage infrastructure requirements of applications which generate big data examines real time analytics solutions introduces in database processing and in memory analytics techniques for data mining discusses the use of mainframes for handling real time big data and the latest types of data management systems for bda provides information on the use of cluster grid and cloud computing systems for bda reviews the peer to peer techniques and tools and the common information visualization techniques used in bda

High-Performance Big-Data Analytics

2015-10-16

data science and machine learning are in high demand as customers are

increasingly looking for ways to glean insights from all their data more customers now realize that business intelligence is not enough as the volume speed and complexity of data now defy traditional analytics tools while business intelligence addresses descriptive and diagnostic analysis data science unlocks new opportunities through predictive and prescriptive analysis the purpose of this book is to provide a gentle and instructionally organized introduction to the field of data science and machine learning with a focus on building and deploying predictive models the book also provides a thorough overview of the microsoft azure machine learning service using task oriented descriptions and concrete end to end examples sufficient to ensure the reader can immediately begin using this important new service it describes all aspects of the service from data ingress to applying machine learning and evaluating the resulting model to deploying the resulting model as a machine learning web service finally this book attempts to have minimal dependencies so that you can fairly easily pick and choose chapters to read when dependencies do exist they are listed at the start and end of the chapter the simplicity of this new service from microsoft will help to take data science and machine learning to a much broader audience than existing products in this space learn how you can quickly build and deploy sophisticated predictive models as machine learning web services with the new azure machine learning service from microsoft

Predictive Analytics with Microsoft Azure Machine Learning

2014-11-25

the main purpose of this book is to investigate explore and describe approaches and methods to facilitate data understanding through analytics solutions based on its principles concepts and applications but analyzing data is also about involving the use of software for this and in order to cover some aspect of data analytics this book uses software excel spss python etc which can help readers to better understand the analytics process in simple terms and supporting useful methods in its application

Data Analytics and Big Data

2018-05-24

data mining informatics and knowledge discovery a comprehensive introduction to statistical methods for data mining and knowledge discovery extensive solutions using actual data with sample r programming code are provided illustrating diverse informatic sources in genomics biomedicine ecological remote sensing astronomy socioeconomics marketing advertising and finance among many others

Statistical Data Analytics

2015-12-21

552242a is a two day instructor led course intended for data professionals who want to expand their knowledge about creating big data analytic solutions on microsoft azure students will learn how to create and run end to end cloud analytics solutions using powershell azure cli azure portal azure cloud shell and python

552242A Operationalize Cloud Analytics Solutions with Microsoft Azure

2023-05-17

this book looks at strategies to help companies become more intelligent connected and agile it discusses how companies can define and measure high impact outcomes and use effectively analytics technology to achieve them it also looks at the technology needed to implement the analytics necessary to achieve high impact outcomes from both analytics tool and technical infrastructure perspective also discussed are ancillary but critical topics such as data security and governance that may not traditionally be a part of analytics discussions but are essential in helping companies maintain a secure environment for their analytics and access the quality data they need to gain critical insights and drive better decision making

Pervasive Intelligence Now

2018-10-23

harness the power of analytics to revolutionize your business analytics is transforming the business landscape all over the world companies are

using data to plan invent evolve and gain critical insight into their customers markets and operations the hype around analytics is well justified but implementing an analytics initiative in practice is no easy task most analytics projects never make it to production even companies that manage to engineer a workable product prototype can stumble at the last hurdle and fail to realize the benefit of their analytics investment in analytics for business success a guide to analytics fitness tm analytics expert hema seshadri diagnoses the challenges that can sabotage analytics product development and operationalization with her accessible guide learn how you can boost your company s analytics fitness and make advanced analytics and ai work for you

Analytics for Business Success

2023-04-15

adeptly address today s business challenges with this powerful new book from web analytics thought leader avinash kaushik analytics 2 0 presents a new framework that will permanently change how you think about analytics it provides specific recommendations for creating an actionable strategy applying analytical techniques correctly solving challenges such as measuring social media and multichannel campaigns achieving optimal success by leveraging experimentation and employing tactics for truly listening to your customers the book will help your organization become more data driven while you become a super analysis ninja

Web Analytics 2.0

2009-12-30

interest in applying analytics machine learning and artificial intelligence to sales and marketing has grown dramatically with no signs of slowing down this book provides essential guidance to apply advanced analytics and data mining techniques to real world business applications the foundation of this text is the author s 20 plus years of developing and delivering big data and artificial intelligence solutions across multiple industries financial services pharmaceuticals consumer packaged goods media and retail he provides guidelines and summarized cases for those studying or working in the fields of data science data engineering and business analytics the book also offers a distinctive style a series of essays each of which summarizes a critical lesson or provides a step by

step business process with specific examples of successes and failures sales and marketing executives project managers business and engineering professionals and graduate students will find this clear and comprehensive book the ideal companion when navigating the complex world of big data analytics

Data Analytics for Business

2022-12-20

put predictive analytics into actionlearn the basics of predictive analysis and data mining through an easy to understand conceptual framework and immediately practice the concepts learned using the open source rapidminer tool whether you are brand new to data mining or working on your tenth project this book will show you how to analyze data uncover hidden patterns and relationships to aid important decisions and predictions data mining has become an essential tool for any enterprise that collects stores and processes data as part of its operations this book is ideal for business users data analysts business analysts business intelligence and data warehousing professionals and for anyone who wants to learn data mining you ll be able to 1 gain the necessary knowledge of different data mining techniques so that you can select the right technique for a given data problem and create a general purpose analytics process 2 get up and running fast with more than two dozen commonly used powerful algorithms for predictive analytics using practical use cases 3 implement a simple step by step process for predicting an outcome or discovering hidden relationships from the data using rapidminer an open source gui based data mining tool predictive analytics and data mining techniques covered exploratory data analysis visualization decision trees rule induction k nearest neighbors naïve bayesian artificial neural networks support vector machines ensemble models bagging boosting random forests linear regression logistic regression association analysis using apriori and fp growth k means clustering density based clustering self organizing maps text mining time series forecasting anomaly detection and feature selection implementation files can be downloaded from the book companion site at learnpredictiveanalytics com demystifies data mining concepts with easy to understand language shows how to get up and running fast with 20 commonly used powerful techniques for predictive analysis explains the process of using open source rapidminer tools discusses a simple 5 step process for implementing algorithms that can be used for performing predictive analytics includes practical use cases

Predictive Analytics and Data Mining

2014-11-27

embedded analytics is one of the hottest trends in business intelligence right now it s being used in multiple ways to improve decision making provide faster insights gain competitive advantages and grow revenue over the last 10 years data analytics and data visualization have become essential components of an enterprise information strategy nevertheless despite this recognition the adoption of data analytics has remained remarkably static perhaps reaching no more than thirty percent of potential users this book explores the most important techniques for taking that adoption further embedding analytics into the workflow of our everyday operations

Embedded Analytics

2022-11-30

deliver enterprise data analytics success by following prashanth s prescriptive and practical techniques today organizations across the globe are looking at ways to glean insights from data analytics and make good business decisions however not many business enterprises are successful in data analytics according to gartner 80 of analytics programs do not deliver business outcomes mckinsey consulting says less than 20 of the companies have achieved analytics at scale so how can a business enterprise avoid analytics failure and deliver business results this book provides ten key analytics best practices that will improve the odds of delivering enterprise data analytics solutions successfully it is intended for anyone who has a stake and interest in deriving insights from data analytics the three key differentiating aspects of this book are practicality this book offers prescriptive superior and practical guidance completeness this book looks at data analytics holistically across the four key data analytics domains data management data engineering data science and data visualization neutrality this book is technologically agnostic and looks at analytics concepts without any reference to commercial analytics products and technologies dr southekal proves why he is one of the leading thinkers on data and analytics today analytics best practices is an indispensable guide for business leaders and those looking to get into the analytics

field on the nuances challenges and immense opportunities with data douglas b laney principal data analytics strategy caserta and author of infonomics

Analytics Best Practices

2020-04-22

this textbook describes the hands on application of data science techniques to solve problems in manufacturing and the industrial internet of things iiot monitoring and managing operational performance is a crucial activity for industrial and business organisations the emergence of low cost accessible computing and storage through industrial digital technologies idt and industry 4 0 has generated considerable interest in innovative approaches to doing more with data data science predictive analytics machine learning artificial intelligence and general approaches to modelling simulating and visualising industrial systems have often been considered topics only for research labs and academic departments this textbook debunks the mystique around applied data science and shows readers using tutorial style explanations and real life case studies how practitioners can develop their own understanding of performance to achieve tangible business improvements all exercises can be completed with commonly available tools many of which are free to install and use readers will learn how to use tools to investigate diagnose propose and implement analytics solutions that will provide explainable results to deliver digital transformation

Guide to Industrial Analytics

2021-09-27

create innovative informatics solutions with tibco spotfire key featuresget to grips with a variety of tibco spotfire features to create professional applicationsuse different data and visualization techniques to build interactive analyses simplify bi processes and understand data analysis and visualizationbook description the need for agile business intelligence bi is growing daily and tibco spotfire combines self service features with essential enterprise governance and scaling capabilities to provide best practice analytics solutions spotfire is easy and intuitive to use and is a rewarding environment for all bi users and analytics developers starting with data and visualization concepts this book takes

you on a journey through increasingly advanced topics to help you work toward becoming a professional analytics solution provider examples of analyzing real world data are used to illustrate how to work with spotfire once you ve covered the ai driven recommendations engine you ll move on to understanding spotfire s rich suite of visualizations and when why and how you should use each of them in later chapters you ll work with location analytics advanced analytics using tibco enterprise runtime for r how to decide whether to use in database or in memory analytics and how to work with streaming live data in spotfire you ll also explore key product integrations that significantly enhance spotfire s capabilities this book will enable you to exploit the advantages of the spotfire serve topology and learn how to make practical use of scheduling and routing rules by the end of this book you will have learned how to build and use powerful analytics dashboards and applications perform spatial analytics and be able to administer your spotfire environment efficiently what you will learnwork with spotfire on its web cloud pc mac and mobile clientsdeploy spotfire s suite of visualization types effectively and intelligentlybuild user friendly analytics frameworks and analytics applicationsexplore spotfire s predictive analytics capabilitiesuse spotfire s location analytics capabilities to create interactive spatial analyseswrite ironpython scripts with the spotfire apilearn the different ways spotfire can be deployed and administeredwho this book is for if you are a business intelligence or data professional this book will give you a solid grounding in the use of tibco spotfire this book requires no prior knowledge of spotfire or any basic data and visualization concepts

TIBCO Spotfire: A Comprehensive Primer

2019-04-30

use data analytics to drive innovation and value throughout your network infrastructure network and it professionals capture immense amounts of data from their networks buried in this data are multiple opportunities to solve and avoid problems strengthen security and improve network performance to achieve these goals it networking experts need a solid understanding of data science and data scientists need a firm grasp of modern networking concepts data analytics for it networks fills these knowledge gaps allowing both groups to drive unprecedented value from telemetry event analytics network infrastructure metadata and other network data sources drawing on his pioneering experience applying data science to large scale cisco

networks john garrett introduces the specific data science methodologies and algorithms network and it professionals need and helps data scientists understand contemporary network technologies applications and data sources after establishing this shared understanding garrett shows how to uncover innovative use cases that integrate data science algorithms with network data he concludes with several hands on python based case studies reflecting cisco customer experience cx engineers supporting its largest customers these are designed to serve as templates for developing custom solutions ranging from advanced troubleshooting to service assurance understand the data analytics landscape and its opportunities in networking see how elements of an analytics solution come together in the practical use cases explore and access network data sources and choose the right data for your problem innovate more successfully by understanding mental models and cognitive biases walk through common analytics use cases from many industries and adapt them to your environment uncover new data science use cases for optimizing large networks master proven algorithms models and methodologies for solving network problems adapt use cases built with traditional statistical methods use data science to improve network infrastructure analysisanalyze control and data planes with greater sophistication fully leverage your existing cisco tools to collect analyze and visualize data

Strategic Blueprint for Enterprise Analytics

2018-10-24

today successful firms compete and win based on analytics modeling techniques in predictive analytics brings together all the concepts techniques and r code you need to excel in any role involving analytics thomas w miller s unique balanced approach combines business context and quantitative tools appealing to managers analysts programmers and students alike miller addresses multiple business challenges and business cases including segmentation brand positioning product choice modeling pricing research finance sports text analytics sentiment analysis and social network analysis he illuminates the use of cross sectional data time series spatial and even spatio temporal data for each problem miller explains why the problem matters what data is relevant how to explore your data once you ve identified it and then how to successfully model that data you ll learn how to model data conceptually with words and figures and then how to model it with realistic r programs that deliver actionable insights and knowledge miller walks

you through model construction explanatory variable subset selection and validation demonstrating best practices for improving out of sample predictive performance he employs data visualization and statistical graphics in exploring data presenting models and evaluating performance all example code is presented in r today s 1 system for applied statistics statistical research and predictive modeling code is set apart from other text so it s easy to find for those who want it and easy to skip for those who don t

Data Analytics for IT Networks

2013-08-23

Modeling Techniques in Predictive Analytics

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