Fast Data Processing With Spark Second Edition

Stream Processing with Apache SparkLearning Real Time Processing with Spark StreamingStream Processing with Apache SparkBig Data Processing with Apache SparkBig Data Processing with Apache SparkSpark: The Definitive GuideBig Data Processing with Apache SparkMastering Apache SparkStream Processing with Apache SparkBig Data Analytics: Systems, Algorithms, ApplicationsBeginning Apache Spark 2Modern Big Data Processing with HadoopA Hands-on Introduction to Big Data AnalyticsFinancial Data EngineeringBig Data Processing Using Spark in CloudPro Spark StreamingSpark Analytics for Real-time Data ProcessingBig Data Processing with Apache SparkLearning SparkReal-Time Big Data Analytics Gerard Maas Sumit Gupta Gerard Maas Srini Penchikala Renata Sloane Bill Chambers Manuel Ignacio Franco Galeano Mike Frampton Gerard Maas C.S.R. Prabhu Hien Luu V Naresh Kumar Funmi Obembe Tamer Khraisha Mamta Mittal Zubair Nabi Nishant Garg Manuel Ignacio Franco Galeano Jules S. Damji Sumit Gupta

Stream Processing with Apache Spark Learning Real Time Processing with Spark Streaming Stream Processing with Apache Spark Big Data Processing with Apache Spark Big Data Processing with Apache Spark Spark: The Definitive Guide Big Data Processing with Apache Spark Mastering Apache Spark Stream Processing with Apache Spark Big Data Analytics: Systems, Algorithms, Applications Beginning Apache Spark 2 Modern Big Data Processing with Hadoop A Hands-on Introduction to Big Data Analytics Financial Data Engineering Big Data Processing Using Spark in Cloud Pro Spark Streaming Spark Analytics for Real-time Data Processing Big Data Processing with Apache Spark Learning Spark Real-Time Big Data Analytics *Gerard Maas Sumit Gupta Gerard Maas Srini Penchikala Renata Sloane Bill Chambers Manuel Ignacio Franco Galeano Mike Frampton*

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before you can build analytics tools to gain quick insights you first need to know how to process data in real time with this practical guide developers familiar with apache spark will learn how to put this in memory framework to use for streaming data you ll discover how spark enables you to write streaming jobs in almost the same way you write batch jobs authors gerard maas and françois garillot help you explore the theoretical underpinnings of apache spark this comprehensive guide features two sections that compare and contrast the streaming apis spark now supports the original spark streaming library and the newer structured streaming api learn fundamental stream processing concepts and examine different streaming architectures explore structured streaming through practical examples learn different aspects of stream processing in detail create and operate streaming jobs and applications with spark streaming integrate spark streaming with other spark apis learn advanced spark streaming techniques including approximation algorithms and machine learning algorithms compare apache spark to other stream processing projects including apache storm apache flink and apache kafka streams

building scalable and fault tolerant streaming applications made easy with spark streamingabout this book process live data streams more efficiently with better fault recovery using spark streaming implement and deploy real time log file analysis learn about integration with advance spark libraries graphx spark sql and mlib who this book is forthis book is intended for big data developers with basic knowledge of scala but no knowledge of spark it will help you grasp the basics of developing real time applications with spark and understand efficient programming of core elements and applications what you will learn install and configure spark and spark streaming to execute applications explore the architecture and components of spark and spark streaming to use it as a base for other libraries process distributed log files in real time to load data from distributed sources apply transformations on streaming data to use its functions integrate apache spark with the various advance libraries like mlib

and graphx apply production deployment scenarios to deploy your applicationin detailusing practical examples with easy to follow steps this book will teach you how to build real time applications with spark streaming starting with installing and setting the required environment you will write and execute your first program for spark streaming this will be followed by exploring the architecture and components of spark streaming along with an overview of libraries functions exposed by spark next you will be taught about various client apis for coding in spark by using the use case of distributed log file processing you will then apply various functions to transform and enrich streaming data next you will learn how to cache and persist datasets moving on you will integrate apache spark with various other libraries components of spark like mlib graphx and spark sql finally you will learn about deploying your application and cover the different scenarios ranging from standalone mode to distributed mode using mesos yarn and private data centers or on cloud infrastructure style and approacha step by step approach to learn spark streaming in a structured manner with detailed explanation of basic and advance features in an easy to follow style each topic is explained sequentially and supported with real world examples and executable code snippets that appeal to the needs of readers with the wide range of experiences

to build analytics tools that provide faster insights knowing how to process data in real time is a must and moving from batch processing to stream processing is absolutely required fortunately the spark in memory framework platform for processing data has added an extension devoted to fault tolerant stream processing spark streaming if you re familiar with apache spark and want to learn how to implement it for streaming jobs this practical book is a must understand how spark streaming fits in the big picture learn core concepts such as spark rdds spark streaming clusters and the fundamentals of a dstream discover how to create a robust deployment dive into streaming algorithmics learn how to tune measure and monitor spark streaming with early release ebooks you get books in their earliest form the author s raw and unedited content as he or she writes so you can take advantage of these technologies long before the official release of these titles

apache spark is a popular open source big data processing framework thatÕs built around speed ease of use and unified distributed computing architecture not only it supports developing applications in different languages like java scala python and r itÕs also hundred times faster in memory and ten times faster even when running on disk compared to traditional data processing frameworks whether you are currently working on a big data project or interested in learning more about topics like machine learning streaming data processing and graph data analytics this book is for you you can learn about apache spark and develop spark programs for various use cases in big data analytics using the code examples provided this book covers all the libraries in spark ecosystem spark core spark sql spark streaming spark ml and spark graphx

power through big data at lightning speed with apache spark in a world overflowing with data apache spark stands out as the go to engine for fast distributed processing of massive datasets this hands on guide introduces you to the core concepts and real world use cases of big data analytics using apache spark helping you handle data at scale with ease and efficiency whether you re working with batch jobs real time streaming or machine learning pipelines this book walks you through the practical steps to build scalable applications for modern data problems using spark s apis in python pyspark scala and java

learn how to use deploy and maintain apache spark with this comprehensive guide written by the creators of the open source cluster computing framework with an emphasis on improvements and new features in spark 2 0 authors bill chambers and matei zaharia break down spark topics into distinct sections each with unique goals youâ ll explore the basic operations and common functions of sparkâ s structured apis as well as structured streaming a new high level api for building end to end streaming applications developers and system administrators will learn the fundamentals of monitoring tuning and debugging spark and explore machine learning techniques and scenarios for employing mllib sparkâ s scalable machine learning library get a gentle overview of big data and spark learn about dataframes sql and datasetsâ sparkâ s core apisâ through worked examples dive into sparkâ s low level apis rdds and execution of sql and dataframes understand how spark runs on a cluster debug monitor and tune

spark clusters and applications learn the power of structured streaming sparkâ s stream processing engine learn how you can apply mllib to a variety of problems including classification or recommendation

no need to spend hours ploughing through endless data let spark one of the fastest big data processing engines available do the hard work for you key features get up and running with apache spark and python integrate spark with aws for real time analytics apply processed data streams to machine learning apis of apache spark book description processing big data in real time is challenging due to scalability information consistency and fault tolerance this book teaches you how to use spark to make your overall analytical workflow faster and more efficient you ll explore all core concepts and tools within the spark ecosystem such as spark streaming the spark streaming api machine learning extension and structured streaming you ll begin by learning data processing fundamentals using resilient distributed datasets rdds sql datasets and dataframes apis after grasping these fundamentals you ll move on to using spark streaming apis to consume data in real time from tcp sockets and integrate amazon services aws for stream consumption by the end of this book you ll not only have understood how to use machine learning extensions and structured streams but you ll also be able to apply spark in your own upcoming big data projects what you will learn write your own python programs that can interact with spark implement data stream consumption using apache spark recognize common operations in spark to process known data streams integrate spark streaming with amazon services aws create a collaborative filtering model with the movielens dataset apply processed data streams to spark machine learning apis who this book is for data processing with apache spark is for you if you are a software engineer architect or it professional who wants to explore distributed systems and big data analytics although you don t need any knowledge of spark prior experience of working with python is recommended downloading the example code for this book you can download the example code files for all packt books you have purchased from your account at packtpub com if you purchased this book elsewhere you can visit packtpub com support and register to have the files e mailed directly to you

gain expertise in processing and storing data by using advanced techniques with apache sparkabout this book explore the integration of apache spark with third party applications such as h20 databricks and titan evaluate how cassandra and hbase can be used for storage an advanced guide with a combination of instructions and practical examples to extend the most up to date spark functionalitieswho this book is forif you are a developer with some experience with spark and want to strengthen your knowledge of how to get around in the world of spark then this book is ideal for you basic knowledge of linux hadoop and spark is assumed reasonable knowledge of scala is expected what you will learn extend the tools available for processing and storage examine clustering and classification using mllib discover spark stream processing via flume hdfs create a schema in spark sql and learn how a spark schema can be populated with data study spark based graph processing using spark graphx combine spark with h20 and deep learning and learn why it is useful evaluate how graph storage works with apache spark titan hbase and cassandra use apache spark in the cloud with databricks and awsin detailapache spark is an in memory cluster based parallel processing system that provides a wide range of functionality like graph processing machine learning stream processing and sql it operates at unprecedented speeds is easy to use and offers a rich set of data transformations this book aims to take your limited knowledge of spark to the next level by teaching you how to expand spark functionality the book commences with an overview of the spark eco system you will learn how to use mllib to create a fully working neural net for handwriting recognition you will then discover how stream processing can be tuned for optimal performance and to ensure parallel processing the book extends to show how to incorporate h20 for machine learning titan for graph based storage databricks for cloud based spark intermediate scala based code examples are provided for apache spark module processing in a centos linux and databricks cloud environment style and approachthis book is an extensive guide to apache spark modules and tools and shows how spark s functionality can be extended for real time processing and storage with worked examples

this book provides a comprehensive survey of techniques technologies and applications of big data and its analysis the big data

phenomenon is increasingly impacting all sectors of business and industry producing an emerging new information ecosystem on the applications front the book offers detailed descriptions of various application areas for big data analytics in the important domains of social semantic mining banking and financial services capital markets insurance advertisement recommendation systems bio informatics the iot and fog computing before delving into issues of security and privacy with regard to machine learning techniques the book presents all the standard algorithms for learning including supervised semi supervised and unsupervised techniques such as clustering and reinforcement learning techniques to perform collective deep learning multi layered and nonlinear learning for big data are also covered in turn the book highlights real life case studies on successful implementations of big data analytics at large it companies such as google facebook linkedin and microsoft multi sectorial case studies on domain based companies such as deutsche bank the power provider opower delta airlines and a chinese city transportation application represent a valuable addition given its comprehensive coverage of big data analytics the book offers a unique resource for undergraduate and graduate students researchers educators and it professionals alike

develop applications for the big data landscape with spark and hadoop this book also explains the role of spark in developing scalable machine learning and analytics applications with cloud technologies beginning apache spark 2 gives you an introduction to apache spark and shows you how to work with it along the way you ll discover resilient distributed datasets rdds use spark sql for structured data and learn stream processing and build real time applications with spark structured streaming furthermore you ll learn the fundamentals of spark ml for machine learning and much more after you read this book you will have the fundamentals to become proficient in using apache spark and know when and how to apply it to your big data applications what you will learn understand spark unified data processing platform howto run spark in spark shell or databricks use and manipulate rdds deal with structured data using spark sql through its operations and advanced functions build real time applications using spark structured streaming develop intelligent applications with the spark machine learning library who this book is for

programmers and developers active in big data hadoop and java but who are new to the apache spark platform

a comprehensive guide to design build and execute effective big data strategies using hadoop key features get an in depth view of the apache hadoop ecosystem and an overview of the architectural patterns pertaining to the popular big data platform conquer different data processing and analytics challenges using a multitude of tools such as apache spark elasticsearch tableau and more a comprehensive step by step guide that will teach you everything you need to know to be an expert hadoop architect book description the complex structure of data these days requires sophisticated solutions for data transformation to make the information more accessible to the users this book empowers you to build such solutions with relative ease with the help of apache hadoop along with a host of other big data tools this book will give you a complete understanding of the data lifecycle management with hadoop followed by modeling of structured and unstructured data in hadoop it will also show you how to design real time streaming pipelines by leveraging tools such as apache spark and build efficient enterprise search solutions using elasticsearch you will learn to build enterprise grade analytics solutions on hadoop and how to visualize your data using tools such as apache superset this book also covers techniques for deploying your big data solutions on the cloud apache ambari as well as expert techniques for managing and administering your hadoop cluster by the end of this book you will have all the knowledge you need to build expert big data systems what you will learn build an efficient enterprise big data strategy centered around apache hadoop gain a thorough understanding of using hadoop with various big data frameworks such as apache spark elasticsearch and more set up and deploy your big data environment on premises or on the cloud with apache ambari design effective streaming data pipelines and build your own enterprise search solutions utilize the historical data to build your analytics solutions and visualize them using popular tools such as apache superset plan set up and administer your hadoop cluster efficiently who this book is for this book is for big data professionals who want to fast track their career in the hadoop industry and become an expert big data architect project managers and mainframe professionals looking forward to build a

career in big data hadoop will also find this book to be useful some understanding of hadoop is required to get the best out of this book

this practical textbook offers a hands on introduction to big data analytics helping you to develop the skills required to hit the ground running as a data professional it complements theoretical foundations with an emphasis on the application of big data analytics illustrated by real life examples and datasets containing comprehensive coverage of all the key topics in this area this book uses open source technologies and examples in python and apache spark learning features include ethics by design encourages you to consider data ethics at every stage industry insights facilitate a deeper understanding of the link between what you are studying and how it is applied in industry datasets questions and exercises give you the opportunity to apply your learning dr funmi obembe is the head of technology at the faculty of arts science and technology university of northampton dr ofer engel is a data scientist at the university of groningen

today investment in financial technology and digital transformation is reshaping the financial landscape and generating many opportunities too often however engineers and professionals in financial institutions lack a practical and comprehensive understanding of the concepts problems techniques and technologies necessary to build a modern reliable and scalable financial data infrastructure this is where financial data engineering is needed a data engineer developing a data infrastructure for a financial product possesses not only technical data engineering skills but also a solid understanding of financial domain specific challenges methodologies data ecosystems providers formats technological constraints identifiers entities standards regulatory requirements and governance this book offers a comprehensive practical domain driven approach to financial data engineering featuring real world use cases industry practices and hands on projects you ll learn the data engineering landscape in the financial sector specific problems encountered in financial data engineering the structure players and particularities of the financial data domain approaches to designing financial data identification and entity systems financial data governance

frameworks concepts and best practices the financial data engineering lifecycle from ingestion to production the varieties and main characteristics of financial data workflows how to build financial data pipelines using open source tools and apis tamer khraisha phd is a senior data engineer and scientific author with more than a decade of experience in the financial sector

the book describes the emergence of big data technologies and the role of spark in the entire big data stack it compares spark and hadoop and identifies the shortcomings of hadoop that have been overcome by spark the book mainly focuses on the in depth architecture of spark and our understanding of spark rdds and how rdd complements big data s immutable nature and solves it with lazy evaluation cacheable and type inference it also addresses advanced topics in spark starting with the basics of scala and the core spark framework and exploring spark data frames machine learning using mllib graph analytics using graph x and real time processing with apache kafka aws kenisis and azure event hub it then goes on to investigate spark using pyspark and r focusing on the current big data stack the book examines the interaction with current big data tools with spark being the core processing layer for all types of data the book is intended for data engineers and scientists working on massive datasets and big data technologies in the cloud in addition to industry professionals it is helpful for aspiring data processing professionals and students working in big data processing and cloud computing environments

learn the right cutting edge skills and knowledge to leverage spark streaming to implement a wide array of real time streaming applications this book walks you through end to end real time application development using real world applications data and code taking an application first approach each chapter introduces use cases from a specific industry and uses publicly available datasets from that domain to unravel the intricacies of production grade design and implementation the domains covered in pro spark streaming include social media the sharing economy finance online advertising telecommunication and iot in the last few years spark has become synonymous with big data processing dstreams enhance the underlying spark processing engine to support streaming analysis with a novel micro batch processing model pro spark streaming by zubair nabi will enable you to

become a specialist of latency sensitive applications by leveraging the key features of dstreams micro batch processing and functional programming to this end the book includes ready to deploy examples and actual code pro spark streamingwill act as the bible of spark streaming what you ll learn discover spark streaming application development and best practices work with the low level details of discretized streams optimize production grade deployments of spark streaming via configuration recipes and instrumentation using graphite collectd and nagios ingest data from disparate sources including mqtt flume kafka twitter and a custom http receiver integrate and couple with hbase cassandra and redis take advantage of design patterns for side effects and maintaining state across the spark streaming micro batch model implement real time and scalable etl using data frames sparksql hive and sparkr use streaming machine learning predictive analytics and recommendations mesh batch processing with stream processing via the lambda architecture who this book is for data scientists big data experts bi analysts and data architects

this tutorial is focused on analytics and real time data processing using apache spark you will begin with spark sql using the spark sql api and built in functions within apache spark you will go through some interactive analysis and look at some integrations between spark and java scala python you will explore spark streaming streaming context and dstreams you will learn how spark streaming works on top of the spark core thus inheriting its features you will stream data and also learn best practices for managing high velocity streaming and external data sources by the end of this course you will be able to load data from a variety of structured sources for example json hive and parquet using spark sql and schema rdds and will perform real time data processing resource description page

no need to spend hours ploughing through endless data let spark one of the fastest big data processing engines available do the hard work for you key features get up and running with apache spark and python integrate spark with aws for real time analytics apply processed data streams to machine learning apis of apache spark book description processing big data in real time is challenging due to scalability information consistency and fault tolerance this book teaches you how to use spark to make your

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data is bigger arrives faster and comes in a variety of formatsâ and it all needs to be processed at scale for analytics or machine learning but how can you process such varied workloads efficiently enter apache spark updated to include spark 3 0 this second edition shows data engineers and data scientists why structure and unification in spark matters specifically this book explains how to perform simple and complex data analytics and employ machine learning algorithms through step by step walk throughs code snippets and notebooks youâ ll be able to learn python sql scala or java high level structured apis understand spark operations and sql engine inspect tune and debug spark operations with spark configurations and spark ui connect to data sources json parquet csv avro orc hive s3 or kafka perform analytics on batch and streaming data using structured streaming build reliable data pipelines with open source delta lake and spark develop machine learning pipelines with mllib and productionize

models using mlflow

design process and analyze large sets of complex data in real time about this book get acquainted with transformations and database level interactions and ensure the reliability of messages processed using storm implement strategies to solve the challenges of real time data processing load datasets build queries and make recommendations using spark sql who this book is for if you are a big data architect developer or a programmer who wants to develop applications frameworks to implement real time analytics using open source technologies then this book is for you what you will learn explore big data technologies and frameworks work through practical challenges and use cases of real time analytics versus batch analytics develop real word use cases for processing and analyzing data in real time using the programming paradigm of apache storm handle and process real time transactional data optimize and tune apache storm for varied workloads and production deployments process and stream data with amazon kinesis and elastic mapreduce perform interactive and exploratory data analytics using spark sql develop common enterprise architectures applications for real time and batch analytics in detail enterprise has been striving hard to deal with the challenges of data arriving in real time or near real time although there are technologies such as storm and spark and many more that solve the challenges of real time data using the appropriate technology framework for the right business use case is the key to success this book provides you with the skills required to quickly design implement and deploy your real time analytics using real world examples of big data use cases from the beginning of the book we will cover the basics of varied real time data processing frameworks and technologies we will discuss and explain the differences between batch and real time processing in detail and will also explore the techniques and programming concepts using apache storm moving on we ll familiarize you with amazon kinesis for real time data processing on cloud we will further develop your understanding of real time analytics through a comprehensive review of apache spark along with the high level architecture and the building blocks of a spark program you will learn how to transform your data get an output from transformations and persist your results using

spark rdds using an interface called spark sql to work with spark at the end of this book we will introduce spark streaming the streaming library of spark and will walk you through the emerging lambda architecture la which provides a hybrid platform for big data processing by combining real time and precomputed batch data to provide a near real time view of incoming data style and approach this step by step is an easy to follow detailed tutorial filled with practical examples of basic and advanced features each topic is explained sequentially and supported by real world examples and executable code snippets

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