Community Experience Distilled

Building Python Real-Time Applications with Storm

Learn to process massive real-time data streams using Storm and Python—no Java required!

Kartik Bhatnagar   Barry Hart

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Building Python Real Time Applications With Storm

Tobias Bleicker

Building Python Real Time Applications With Storm:

  Building Python Real-Time Applications with Storm Kartik Bhatnagar,Barry Hart,2015-12-02 Learn to process massive real time data streams using Storm and Python no Java required About This Book Learn to use Apache Storm and the Python Petrel library to build distributed applications that process large streams of data Explore sample applications in real time and analyze them in the popular NoSQL databases MongoDB and Redis Discover how to apply software development best practices to improve performance productivity and quality in your Storm projects Who This Book Is For This book is intended for Python developers who want to benefit from Storm s real time data processing capabilities If you are new to Python you ll benefit from the attention to key supporting tools and techniques such as automated testing virtual environments and logging If you re an experienced Python developer you ll appreciate the thorough and detailed examples What You Will Learn Install Storm and learn about the prerequisites Get to know the components of a Storm topology and how to control the flow of data between them Ingest Twitter data directly into Storm Use Storm with MongoDB and Redis Build topologies and run them in Storm Use an interactive graphical debugger to debug your topology as it s running in Storm Test your topology components outside of Storm Configure your topology using YAML In Detail Big data is a trending concept that everyone wants to learn about With its ability to process all kinds of data in real time Storm is an important addition to your big data bag of tricks At the same time Python is one of the fastest growing programming languages today It has become a top choice for both data science and everyday application development Together Storm and Python enable you to build and deploy real time big data applications quickly and easily You will begin with some basic command tutorials to set up storm and learn about its configurations in detail You will then go through the requirement scenarios to create a Storm cluster Next you ll be provided with an overview of Petrel followed by an example of Twitter topology and persistence using Redis and MongoDB Finally you will build a production quality Storm topology using development best practices Style and approach This book takes an easy to follow and a practical approach to help you understand all the concepts related to Storm and Python   **Real-Time Big Data Analytics** Sumit Gupta,Shilpi,2016-02-26 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   <u>Automated Essay Scoring</u> Beata Beigman Klebanov,Nitin Madnani,2022-05-31 This book discusses the state of the art of automated essay scoring its challenges and its potential One of the earliest applications of artificial intelligence to language data along with machine translation and speech recognition automated essay scoring has evolved to become both a revenue generating industry and a vast field of research with many subfields and connections to other NLP tasks In this book we review the developments in this field against the backdrop of Elias Page s seminal 1966 paper titled The Imminence of Grading Essays by Computer Part 1 establishes what automated essay scoring is about why it exists where the technology stands and what are some of the main issues In Part 2 the book presents guided exercises to illustrate how one would go about building and evaluating a simple automated scoring system while Part 3 offers readers a survey of the literature on different types of scoring models the aspects of essay quality studied in prior research and the implementation and evaluation of a scoring engine Part 4 offers a broader view of the field inclusive of some neighboring areas and Part ref part5 closes with summary and discussion This book grew out of a week long course on automated evaluation of language production at the North American Summer School for Logic Language and Information NASSLLI attended by advanced undergraduates and early stage graduate students from a variety of disciplines Teachers of natural language processing in particular will find that the book offers a useful foundation for a supplemental module on

automated scoring Professionals and students in linguistics applied linguistics educational technology and other related disciplines will also find the material here useful   Hadoop 2 Quick-Start Guide Douglas Eadline,2015-10-28 Get Started Fast with Apache Hadoop 2 YARN and Today s Hadoop Ecosystem With Hadoop 2 x and YARN Hadoop moves beyond MapReduce to become practical for virtually any type of data processing Hadoop 2 x and the Data Lake concept represent a radical shift away from conventional approaches to data usage and storage Hadoop 2 x installations offer unmatched scalability and breakthrough extensibility that supports new and existing Big Data analytics processing methods and models Hadoop 2 Quick Start Guide is the first easy accessible guide to Apache Hadoop 2 x YARN and the modern Hadoop ecosystem Building on his unsurpassed experience teaching Hadoop and Big Data author Douglas Eadline covers all the basics you need to know to install and use Hadoop 2 on personal computers or servers and to navigate the powerful technologies that complement it Eadline concisely introduces and explains every key Hadoop 2 concept tool and service illustrating each with a simple beginning to end example and identifying trustworthy up to date resources for learning more This guide is ideal if you want to learn about Hadoop 2 without getting mired in technical details Douglas Eadline will bring you up to speed quickly whether you re a user admin devops specialist programmer architect analyst or data scientist Coverage Includes Understanding what Hadoop 2 and YARN do and how they improve on Hadoop 1 with MapReduce Understanding Hadoop based Data Lakes versus RDBMS Data Warehouses Installing Hadoop 2 and core services on Linux machines virtualized sandboxes or clusters Exploring the Hadoop Distributed File System HDFS Understanding the essentials of MapReduce and YARN application programming Simplifying programming and data movement with Apache Pig Hive Sqoop Flume Oozie and HBase Observing application progress controlling jobs and managing workflows Managing Hadoop efficiently with Apache Ambari including recipes for HDFS to NFSv3 gateway HDFS snapshots and YARN configuration Learning basic Hadoop 2 troubleshooting and installing Apache Hue and Apache Spark   **Managing and Processing Big Data in Cloud Computing** Kannan, Rajkumar,2016-01-07 Big data has presented a number of opportunities across industries With these opportunities come a number of challenges associated with handling analyzing and storing large data sets One solution to this challenge is cloud computing which supports a massive storage and computation facility in order to accommodate big data processing Managing and Processing Big Data in Cloud Computing explores the challenges of supporting big data processing and cloud based platforms as a proposed solution Emphasizing a number of crucial topics such as data analytics wireless networks mobile clouds and machine learning this publication meets the research needs of data analysts IT professionals researchers graduate students and educators in the areas of data science computer programming and IT development   **Artificial Intelligence: Concepts, Methodologies, Tools, and Applications** Management Association, Information Resources,2016-12-12 Ongoing advancements in modern technology have led to significant developments in artificial intelligence With the numerous applications available it becomes imperative

to conduct research and make further progress in this field Artificial Intelligence Concepts Methodologies Tools and Applications provides a comprehensive overview of the latest breakthroughs and recent progress in artificial intelligence Highlighting relevant technologies uses and techniques across various industries and settings this publication is a pivotal reference source for researchers professionals academics upper level students and practitioners interested in emerging perspectives in the field of artificial intelligence   **Building Blocks for IoT Analytics Internet-of-Things Analytics** John Soldatos,2022-09-01 Internet of Things IoT Analytics are an integral element of most IoT applications as it provides the means to extract knowledge drive actuation services and optimize decision making IoT analytics will be a major contributor to IoT business value in the coming years as it will enable organizations to process and fully leverage large amounts of IoT data which are nowadays largely underutilized The Building Blocks of IoT Analytics is devoted to the presentation the main technology building blocks that comprise advanced IoT analytics systems It introduces IoT analytics as a special case of BigData analytics and accordingly presents leading edge technologies that can be deployed in order to successfully confront the main challenges of IoT analytics applications Special emphasis is paid in the presentation of technologies for IoT streaming and semantic interoperability across diverse IoT streams Furthermore the role of cloud computing and BigData technologies in IoT analytics are presented along with practical tools for implementing deploying and operating non trivial IoT applications Along with the main building blocks of IoT analytics systems and applications the book presents a series of practical applications which illustrate the use of these technologies in the scope of pragmatic applications Technical topics discussed in the book include Cloud Computing and BigData for IoT analyticsSearching the Internet of ThingsDevelopment Tools for IoT Analytics ApplicationsIoT Analytics as a ServiceSemantic Modelling and Reasoning for IoT AnalyticsIoT analytics for Smart BuildingsIoT analytics for Smart CitiesOperationalization of IoT analyticsEthical aspects of IoT analyticsThis book contains both research oriented and applied articles on IoT analytics including several articles reflecting work undertaken in the scope of recent European Commission funded projects in the scope of the FP7 and H2020 programmes These articles present results of these projects on IoT analytics platforms and applications Even though several articles have been contributed by different authors they are structured in a well thought order that facilitates the reader either to follow the evolution of the book or to focus on specific topics depending on his her background and interest in IoT and IoT analytics technologies The compilation of these articles in this edited volume has been largely motivated by the close collaboration of the co authors in the scope of working groups and IoT events organized by the Internet of Things Research Cluster IERC which is currently a part of EU s Alliance for Internet of Things Innovation AIOTI   *Data Driven Decision Making using Analytics* Parul Gandhi,Surbhi Bhatia,Kapal Dev,2021-12-21 This book aims to explain Data Analytics towards decision making in terms of models and algorithms theoretical concepts applications experiments in relevant domains or focused on specific issues It explores the concepts of database technology machine learning knowledge based system high

performance computing information retrieval finding patterns hidden in large datasets and data visualization Also it presents various paradigms including pattern mining clustering classification and data analysis Overall aim is to provide technical solutions in the field of data analytics and data mining Features Covers descriptive statistics with respect to predictive analytics and business analytics Discusses different data analytics platforms for real time applications Explain SMART business models Includes algorithms in data sciences alongwith automated methods and models Explores varied challenges encountered by researchers and businesses in the realm of real time analytics This book aims at researchers and graduate students in data analytics data sciences data mining and signal processing   *Storage Systems* Alexander Thomasian,2021-10-13 Storage Systems Organization Performance Coding Reliability and Their Data Processing was motivated by the 1988 Redundant Array of Inexpensive Independent Disks proposal to replace large form factor mainframe disks with an array of commodity disks Disk loads are balanced by striping data into strips with one strip per disk and storage reliability is enhanced via replication or erasure coding which at best dedicates k strips per stripe to tolerate k disk failures Flash memories have resulted in a paradigm shift with Solid State Drives SSDs replacing Hard Disk Drives HDDs for high performance applications RAID and Flash have resulted in the emergence of new storage companies namely EMC NetApp SanDisk and Purestorage and a multibillion dollar storage market Key new conferences and publications are reviewed in this book The goal of the book is to expose students researchers and IT professionals to the more important developments in storage systems while covering the evolution of storage technologies traditional and novel databases and novel sources of data We describe several prototypes FAWN at CMU RAMCloud at Stanford and Lightstore at MIT Oracle s Exadata AWS Aurora Alibaba s PolarDB Fungible Data Center and author s paper designs for cloud storage namely heterogeneous disk arrays and hierarchical RAID Surveys storage technologies and lists sources of data measurements text audio images and video Familiarizes with paradigms to improve performance caching prefetching log structured file systems and merge trees LSMs Describes RAID organizations and analyzes their performance and reliability Conserves storage via data compression deduplication compaction and secures data via encryption Specifies implications of storage technologies on performance and power consumption Exemplifies database parallelism for big data analytics deep learning via multicore CPUs GPUs FPGAs and ASICs e g Google s Tensor Processing Units   **Design News** ,2008   **Linux Journal** ,2002-07

   Storm Applied Matthew Jankowski,Peter Pathirana,Sean Allen,2015-03-30 Summary Storm Applied is a practical guide to using Apache Storm for the real world tasks associated with processing and analyzing real time data streams This immediately useful book starts by building a solid foundation of Storm essentials so that you learn how to think about designing Storm solutions the right way from day one But it quickly dives into real world case studies that will bring the novice up to speed with productionizing Storm Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications Summary Storm Applied is a practical guide to using Apache Storm for the real world

tasks associated with processing and analyzing real time data streams This immediately useful book starts by building a solid foundation of Storm essentials so that you learn how to think about designing Storm solutions the right way from day one But it quickly dives into real world case studies that will bring the novice up to speed with productionizing Storm About the Technology It s hard to make sense out of data when it s coming at you fast Like Hadoop Storm processes large amounts of data but it does it reliably and in real time guaranteeing that every message will be processed Storm allows you to scale with your data as it grows making it an excellent platform to solve your big data problems About the Book Storm Applied is an example driven guide to processing and analyzing real time data streams This immediately useful book starts by teaching you how to design Storm solutions the right way Then it quickly dives into real world case studies that show you how to scale a high throughput stream processor ensure smooth operation within a production cluster and more Along the way you ll learn to use Trident for stateful stream processing along with other tools from the Storm ecosystem This book moves through the basics quickly While prior experience with Storm is not assumed some experience with big data and real time systems is helpful What s Inside Mapping real problems to Storm components Performance tuning and scaling Practical troubleshooting and debugging Exactly once processing with Trident About the Authors Sean Allen Matthew Jankowski and Peter Pathirana lead the development team for a high volume search intensive commercial web application at TheLadders Table of Contents Introducing Storm Core Storm concepts Topology design Creating robust topologies Moving from local to remote topologies Tuning in Storm Resource contention Storm internals Trident   *International Dictionary of the English language* Noah Webster,1891   <u>The Times Index</u> ,1978 Indexes the Times Sunday times and magazine Times literary supplement Times educational supplement Times educational supplement Scotland and the Times higher education supplement

Forthcoming Books Rose Arny,2002-04   **Python Real-World Projects** Arun Prakash Shivakumar,2025-12-13 DESCRIPTION Python is the industry standard for modern software development known for its readability and ability to integrate into virtually every domain from scripting to complex system design This book is your practical guide to moving beyond Python basics and mastering the art of building complete deployable applications Each chapter blends essential concepts with hands on practice covering automation APIs web scraping data visualization database integration and cloud deployment You will work with popular libraries and frameworks like Flask FastAPI Pandas SQLAlchemy and BeautifulSoup while learning to structure projects manage dependencies and apply professional development practices Every chapter concludes with a hands on exercise from CLI tools and data pipelines to full web applications and portfolio websites These projects not only reinforce learning but also give you tangible portfolio ready examples to showcase to employers or clients This book takes you step by step through real world projects starting from simple MVPs and progressing to enterprise ready solutions By the end of this book the readers will gain skills in testing code optimization documentation and scalability preparing them for real world challenges You will have a polished collection of Python projects the confidence to tackle

complex problems and the knowledge to take your coding career to the next level WHAT YOU WILL LEARN Build complete Python applications from concept to deployment Master project structuring automation APIs databases testing and visualization Tackle real world software challenges Web scrape HTML with BeautifulSoup and persist data to SQLite Implement pytest unit and acceptance testing measure test coverage Build pandas data pipelines with Pydantic validation and scheduling Visualize real time data with Matplotlib Seaborn and dashboards Develop FastAPI CRUD endpoints using Pydantic for request validation WHO THIS BOOK IS FOR This book is for beginner to intermediate Python developers who want to move beyond basic programming and build real world projects It is ideal for those eager to create practical applications strengthen their coding skills and showcase their work through deployable portfolio ready solutions Basic Python knowledge is recommended but no prior experience with advanced tools or frameworks is required TABLE OF CONTENTS 1 Laying the Foundation 2 Project Structuring and Version Control 3 Building Command line Interface Application 4 Automating Data Pipelines 5 Web Scraping with BeautifulSoup and Requests 6 REST API Development with FAST API 7 Unit and Acceptance Testing 8 Data Visualization with Python 9 Database Integration 10 Building a Web Application with Flask 11 Deploying Python Projects to Cloud 12 Portfolio Building and Next Steps   *Apache Storm in Action* Frank Reiniger,2025-11-07 Apache Storm in Action Build Low Latency Data Pipelines for Analytics Machine Learning and Event Driven Applications What if your data systems could think in real time In a world where every millisecond counts batch processing is no longer enough Apache Storm in Action gives you the tools and know how to design build and operate true real time data pipelines that power analytics automation and machine learning at scale At its core this book is about making data react streaming transforming and responding as events occur Through clear explanations and complete working examples you ll learn how to create low latency topologies that can handle millions of events per second with reliability and precision You ll master the essentials Spouts bolts and streams the building blocks of Storm s reactive architecture Trident and stateful processing delivering exactly once guarantees and robust windowing Integrations with Kafka Redis Cassandra and cloud native platforms Performance tuning fault tolerance and observability using real world patterns Machine learning pipelines and anomaly detection for intelligent event driven systems Deployment and scaling on Kubernetes Docker and hybrid environments Each chapter blends production grade code with actionable operations guidance including runbooks troubleshooting playbooks and deployment manifests that bridge the gap between development and reliability engineering You ll move from your first working topology to advanced architectures supporting live analytics recommendation engines and automated decision making Written for engineers architects and data practitioners Apache Storm in Action offers a practical code focused path to mastering one of the most battle tested streaming frameworks ever built and applying its lessons to modern real time ecosystems Stop waiting for the next batch Start building systems that think as fast as your data Get your copy of Apache Storm in Action today and start engineering real time intelligence   <u>Learning Storm</u> Ankit

Jain,Anand Nalya,2014-08-15 If you are a Java developer who wants to enter into the world of real time stream processing applications using Apache Storm then this book is for you No previous experience in Storm is required as this book starts from the basics After finishing this book you will be able to develop not so complex Storm applications **Books In Print 2004-2005** Ed Bowker Staff,Staff Bowker, Ed,2004 **Storm Real-time Processing Cookbook** Quinton Anderson,2013 A cookbook with plenty of practical recipes for different uses of Storm If you are a Java developer with basic knowledge of real time processing and would like to learn Storm to process unbounded streams of data in real time then this book is for you

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