Master Node

Driver Program

Spark Context

Cluster Manager

Worker Node

Task

Cache

Worker Node

Task

Cache

Spark Architecture Distributed Systems Architecture

Ensheng Dong

Spark Architecture Distributed Systems Architecture:

Scaling Machine Learning with Spark Adi Polak,2023-03-07 Learn how to build end to end scalable machine learning solutions with Apache Spark With this practical guide author Adi Polak introduces data and ML practitioners to creative solutions that supersede today s traditional methods You ll learn a more holistic approach that takes you beyond specific requirements and organizational goals allowing data and ML practitioners to collaborate and understand each other better Scaling Machine Learning with Spark examines several technologies for building end to end distributed ML workflows based on the Apache Spark ecosystem with Spark MLlib MLflow TensorFlow and PyTorch If you re a data scientist who works with machine learning this book shows you when and why to use each technology You will Explore machine learning including distributed computing concepts and terminology Manage the ML lifecycle with MLflow Ingest data and perform basic preprocessing with Spark Explore feature engineering and use Spark to extract features Train a model with MLlib and build a pipeline to reproduce it Build a data system to combine the power of Spark with deep learning Get a step by step example of working with distributed TensorFlow Use PyTorch to scale machine learning and its internal architecture   Information Systems Design and Intelligent Applications Vikrant Bhateja,Bao Le Nguyen,Nhu Gia Nguyen,Suresh Chandra Satapathy,Dac-Nhuong Le,2018-03-01 The book is a collection of high quality peer reviewed research papers presented at International Conference on Information System Design and Intelligent Applications INDIA 2017 held at Duy Tan University Da Nang Vietnam during 15 17 June 2017 The book covers a wide range of topics of computer science and information technology discipline ranging from image processing database application data mining grid and cloud computing bioinformatics and many others The various intelligent tools like swarm intelligence artificial intelligence evolutionary algorithms bio inspired algorithms have been well applied in different domains for solving various challenging problems

Domain-Specific Computer Architectures for Emerging Applications Chao Wang,2024-06-04 With the end of Moore s Law domain specific architecture DSA has become a crucial mode of implementing future computing architectures This book discusses the system level design methodology of DSAs and their applications providing a unified design process that guarantees functionality performance energy efficiency and real time responsiveness for the target application DSAs often start from domain specific algorithms or applications analyzing the characteristics of algorithmic applications such as computation memory access and communication and proposing the heterogeneous accelerator architecture suitable for that particular application This book places particular focus on accelerator hardware platforms and distributed systems for various novel applications such as machine learning data mining neural networks and graph algorithms and also covers RISC V open source instruction sets It briefly describes the system design methodology based on DSAs and presents the latest research results in academia around domain specific acceleration architectures Providing cutting edge discussion of big data and artificial intelligence scenarios in contemporary industry and typical DSA applications this book appeals to industry

professionals as well as academicians researching the future of computing in these areas   Distributed Applications and Interoperable Systems Anne Remke,Valerio Schiavoni,2020-06-08 This book constitutes the proceedings of the 20th IFIP International Conference on Distributed Applications and Interoperable Systems DAIS 2020 which was supposed to be held in Valletta Malta in June 2020 as part of the 15th International Federated Conference on Distributed Computing Techniques DisCoTec 2020 The conference was held virtually due to the COVID 19 pandemic The 10 full papers presented together with 1 short paper and 1 invited paper were carefully reviewed and selected from 17 submissions The papers addressed challenges in multiple application areas such as privacy and security cloud and systems fault tolerance and reproducibility machine learning for systems and distributed algorithms   *Data Intensive Computing Applications for Big Data* Mamta Mittal,Valentina Emilia Balas,D. Jude Hemanth,Raghvendra Kumar,2018-01-15 The book Data Intensive Computing Applications for Big Data discusses the technical concepts of big data data intensive computing through machine learning soft computing and parallel computing paradigms It brings together researchers to report their latest results or progress in the development of the above mentioned areas Since there are few books on this specific subject the editors aim to provide a common platform for researchers working in this area to exhibit their novel findings The book is intended as a reference work for advanced undergraduates and graduate students as well as multidisciplinary interdisciplinary and transdisciplinary research workers and scientists on the subjects of big data and cloud parallel and distributed computing and explains didactically many of the core concepts of these approaches for practical applications It is organized into 24 chapters providing a comprehensive overview of big data analysis using parallel computing and addresses the complete data science workflow in the cloud as well as dealing with privacy issues and the challenges faced in a data intensive cloud computing environment The book explores both fundamental and high level concepts and will serve as a manual for those in the industry while also helping beginners to understand the basic and advanced aspects of big data and cloud computing   Big Data Infrastructure Technologies for Data Analytics Yuri Demchenko,Juan J. Cuadrado-Gallego,Oleg Chertov,Marharyta Aleksandrova,2024-10-25 This book provides a comprehensive overview and introduction to Big Data Infrastructure technologies existing cloud based platforms and tools for Big Data processing and data analytics combining both a conceptual approach in architecture design and a practical approach in technology selection and project implementation Readers will learn the core functionality of major Big Data Infrastructure components and how they integrate to form a coherent solution with business benefits Specific attention will be given to understanding and using the major Big Data platform Apache Hadoop ecosystem its main functional components MapReduce HBase Hive Pig Spark and streaming analytics The book includes topics related to enterprise and research data management and governance and explains modern approaches to cloud and Big Data security and compliance The book covers two knowledge areas defined in the EDISON Data Science Framework EDSF Data Science Engineering and Data Management and Governance and can be used as a

textbook for university courses or provide a basis for practitioners for further self study and practical use of Big Data technologies and competent evaluation and implementation of practical projects in their organizations *Innovative Computing* Jason C. Hung,Jia-Wei Chang,Yan Pei,Wei-Chen Wu,2022-01-04 This book comprises select proceedings of the 4th International Conference on Innovative Computing IC 2021 focusing on cutting edge research carried out in the areas of information technology science and engineering Some of the themes covered in this book are cloud communications and networking high performance computing architecture for secure and interactive IoT satellite communication wearable network and system infrastructure management etc The essays are written by leading international experts making it a valuable resource for researchers and practicing engineers alike **Big Data Analysis** Senlin Luo,Limin Pan,2026-01-30 This book systematically and comprehensively explores and discusses the theory and technology of big data analysis The main topics include the basic concept of big data analytics its core architecture the calculation model used the clash between big data and information security big data and natural language processing and big data and biological information processing Given its scope the book can meet the long term training needs of diverse talents at colleges and universities as well as teaching and research staff engaged in cyberspace security computer science and technology software engineering artificial intelligence information and communication engineering and related disciplines The book also has essential practical and reference value for all those engaged in research related to big data analytics *ADA in Distributed Real-time Systems* Kjell Nielsen,1990 A software first real time design methodology to determine a suitable process abstraction of the concurrent system elements create a set of virtual nodes that encapsulate Ada tasks determine inter node communication select a set of distributed processors to support the virtual nodes distribute the virtual nodes among the selected processors are featured *Distributed Access to Parallel File Systems* Dean Hildebrand,2006 Building Linux and OpenBSD Firewalls Wes Sonnenreich,Tom Yates,2000-02-16 A step by step guide to bulding a commercial grade firewall with open source software Building Linux and OpenBSD Firewalls It s now more important than ever before to protect your data and computers from people trying to hack into your network Without the proper security the wrong person can gain access to your system and read critical documents change data delete items and much worse With this book you ll quickly learn how to protect your network from such attacks as you build a Linux or OpenBSD firewall From determining how much security you ll need to configuring the firewall and monitoring your system authors Tom Yates and Wes Sonnenreich clearly guide you through all the necessary steps to improve your security They show you how to Build Linux and OpenBSD firewalls that meet your security needs Choose the appropriate hardware for each operating system and put the machine together Configure a firewall that allows network services such as email newsgroups and Internet and intranet access Monitor and update your system to close any holes in security Detect intruders and restore your network security The companion Web site at www wiley com compbooks sonnenreich features Updates for the most recent releases of OpenBSD and Red Hat Useful scripts and

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