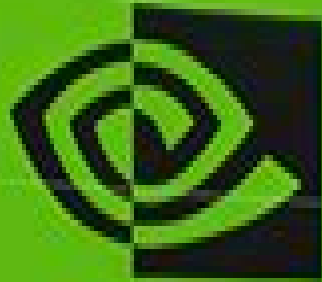


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Grid and Cloud Computing Mr. Rohit Manglik, 2024-04-06 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels

Hands-On GPU Computing with Python Avimanyu Bandyopadhyay, 2019-05-14 Explore GPU enabled programmable environment for machine learning scientific applications and gaming using PuCUDA PyOpenGL and Anaconda Accelerate Key Features Understand effective synchronization strategies for faster processing using GPUs Write parallel processing scripts with PyCuda and PyOpenCL Learn to use the CUDA libraries like CuDNN for deep learning on GPUs Book Description GPUs are proving to be excellent general purpose parallel computing solutions for high performance tasks such as deep learning and scientific computing This book will be your guide to getting started with GPU computing It will start with introducing GPU computing and explain the architecture and programming models for GPUs You will learn by example how to perform GPU programming with Python and you ll look at using integrations such as PyCUDA PyOpenCL CuPy and Numba with Anaconda for various tasks such as machine learning and data mining Going further you will get to grips with GPU work flows management and deployment using modern containerization solutions Toward the end of the book you will get familiar with the principles of distributed computing for training machine learning models and enhancing efficiency and performance By the end of this book you will be able to set up a GPU ecosystem for running complex applications and data models that demand great processing capabilities and be able to efficiently manage memory to compute your application effectively and quickly What you will learn Utilize Python libraries and frameworks for GPU acceleration Set up a GPU enabled programmable machine learning environment on your system with Anaconda Deploy your machine learning system on cloud containers with illustrated examples Explore PyCUDA and PyOpenCL and compare them with platforms such as CUDA OpenCL and ROCm Perform data mining tasks with machine learning models on GPUs Extend your knowledge of GPU computing in scientific applications Who this book is for Data Scientist Machine Learning enthusiasts and professionals who wants to get started with GPU computation and perform the complex tasks with low latency Intermediate knowledge of Python programming is assumed

Distributed and Cloud Computing Kai Hwang, Jack Dongarra, Geoffrey C. Fox, 2013-12-18 Distributed and Cloud Computing From Parallel Processing to the Internet of Things offers complete coverage of modern distributed computing technology including clusters the grid service oriented architecture massively parallel processors peer to peer networking and cloud computing It is the first modern up to date distributed systems textbook it explains how to create high performance scalable reliable systems exposing the design principles architecture and innovative applications of parallel distributed and cloud computing systems Topics covered by this book include facilitating management debugging migration and disaster recovery through virtualization clustered

systems for research or ecommerce applications designing systems as web services and social networking systems using peer to peer computing The principles of cloud computing are discussed using examples from open source and commercial applications along with case studies from the leading distributed computing vendors such as Amazon Microsoft and Google Each chapter includes exercises and further reading with lecture slides and more available online This book will be ideal for students taking a distributed systems or distributed computing class as well as for professional system designers and engineers looking for a reference to the latest distributed technologies including cloud P2P and grid computing Complete coverage of modern distributed computing technology including clusters the grid service oriented architecture massively parallel processors peer to peer networking and cloud computing Includes case studies from the leading distributed computing vendors Amazon Microsoft Google and more Explains how to use virtualization to facilitate management debugging migration and disaster recovery Designed for undergraduate or graduate students taking a distributed systems course each chapter includes exercises and further reading with lecture slides and more available online

GPU Parallel Program Development Using CUDA Tolga Soyata, 2018-01-19 GPU Parallel Program Development using CUDA teaches GPU programming by showing the differences among different families of GPUs This approach prepares the reader for the next generation and future generations of GPUs The book emphasizes concepts that will remain relevant for a long time rather than concepts that are platform specific At the same time the book also provides platform dependent explanations that are as valuable as generalized GPU concepts The book consists of three separate parts it starts by explaining parallelism using CPU multi threading in Part I A few simple programs are used to demonstrate the concept of dividing a large task into multiple parallel sub tasks and mapping them to CPU threads Multiple ways of parallelizing the same task are analyzed and their pros cons are studied in terms of both core and memory operation Part II of the book introduces GPU massive parallelism The same programs are parallelized on multiple Nvidia GPU platforms and the same performance analysis is repeated Because the core and memory structures of CPUs and GPUs are different the results differ in interesting ways The end goal is to make programmers aware of all the good ideas as well as the bad ideas so readers can apply the good ideas and avoid the bad ideas in their own programs Part III of the book provides pointer for readers who want to expand their horizons It provides a brief introduction to popular CUDA libraries such as cuBLAS cuFFT NPP and Thrust the OpenCL programming language an overview of GPU programming using other programming languages and API libraries such as Python OpenCV OpenGL and Apple s Swift and Metal and the deep learning library cuDNN

General-Purpose Graphics Processor Architectures Tor M. Aamodt, Wilson Wai Lun Fung, Timothy G. Rogers, 2022-05-31 Originally developed to support video games graphics processor units GPUs are now increasingly used for general purpose non graphics applications ranging from machine learning to mining of cryptographic currencies GPUs can achieve improved performance and efficiency versus central processing units CPUs by dedicating a larger fraction of hardware resources to computation In addition their general purpose

programmability makes contemporary GPUs appealing to software developers in comparison to domain specific accelerators. This book provides an introduction to those interested in studying the architecture of GPUs that support general purpose computing. It collects together information currently only found among a wide range of disparate sources. The authors led development of the GPGPU-Sim simulator widely used in academic research on GPU architectures. The first chapter of this book describes the basic hardware structure of GPUs and provides a brief overview of their history. Chapter 2 provides a summary of GPU programming models relevant to the rest of the book. Chapter 3 explores the architecture of GPU compute cores. Chapter 4 explores the architecture of the GPU memory system. After describing the architecture of existing systems, Chapters 3 and 4 provide an overview of related research. Chapter 5 summarizes cross-cutting research impacting both the compute core and memory system. This book should provide a valuable resource for those wishing to understand the architecture of graphics processor units (GPUs) used for acceleration of general purpose applications and to those who want to obtain an introduction to the rapidly growing body of research exploring how to improve the architecture of these GPUs.

IBM Power System S822LC for Big Data: Technical Overview and Introduction Scott Vetter, David Barron, Alexandre Bicas Caldeira, Volker Haug, IBM Redbooks, 2017-08-29. This IBM Redpaper™ publication is a comprehensive guide that covers the IBM Power System S822LC for Big Data 8001 22C server that uses the latest IBM POWER8 processor technology and supports Linux operating systems (OSs). The objective of this paper is to introduce the Power S822LC for Big Data offerings and their relevant functions as related to targeted application workloads. The new Linux scale-out systems provide differentiated performance, scalability, and low acquisition cost, including consolidated server footprint with up to 66% more virtual machines (VMs) per server than competitive x86 servers. Superior data throughput and performance for high-value Linux workloads such as big data analytic and industry applications. Up to 12 LFF drives that are installed within the chassis to meet storage-rich application requirements. Superior application performance due to a 2x per-core performance advantage over x86-based systems. Leadership data throughput enabled by POWER8 multithreading with up to 4x more threads than x86 designs. Acceleration of big data workloads with up to two GPUs and superior I/O bandwidth with Coherent Accelerator Processor Interface (CAPI). This publication is for professionals who want to acquire a better understanding of IBM Power Systems™ products. The intended audience includes Clients, Sales and marketing professionals, Technical support professionals, IBM Business Partners, Independent software vendors.

CUDA Programming Shane Cook, 2012-12-28. If you need to learn CUDA but don't have experience with parallel computing, *CUDA Programming: A Developer's Introduction* offers a detailed guide to CUDA with a grounding in parallel fundamentals. It starts by introducing CUDA and bringing you up to speed on GPU parallelism and hardware, then delving into CUDA installation. Chapters on core concepts including threads, blocks, grids, and memory focus on both parallel and CUDA-specific issues. Later, the book demonstrates CUDA in practice for optimizing applications, adjusting to new hardware, and solving common problems. Comprehensive introduction to parallel

programming with CUDA for readers new to both Detailed instructions help readers optimize the CUDA software development kit Practical techniques illustrate working with memory threads algorithms resources and more Covers CUDA on multiple hardware platforms Mac Linux and Windows with several NVIDIA chipsets Each chapter includes exercises to test reader knowledge

Euro-Par 2024: Parallel Processing Jesus Carretero, Sameer Shende, Javier Garcia-Blas, Ivona Brandic, Katzalin Olcoz, Martin Schreiber, 2024-08-25 The three volume set LNCS 14801 14802 and 14803 constitutes the proceedings of the 30th European Conference on Parallel and Distributed Processing Euro Par 2024 which took place in Madrid Spain during August 26 30 2024 The 88 full papers included in the proceedings were carefully reviewed and selected from 293 submissions They were organized in topical sections as follows Part I Programming compilers and performance scheduling resource management cloud edge computing and workflows Part II Architectures and accelerators data analytics AI and computational science Part III Theory and algorithms multidisciplinary domain specific and applied parallel and distributed computing

Maximum PC, 2008-12 Maximum PC is the magazine that every computer fanatic PC gamer or content creator must read Each and every issue is packed with punishing product reviews insightful and innovative how to stories and the illuminating technical articles that enthusiasts crave

Kubernetes for Generative AI Solutions Ashok Srirama, Sukirti Gupta, 2025-06-06 Master the complete Generative AI project lifecycle on Kubernetes K8s from design and optimization to deployment using best practices cost effective strategies and real world examples Key Features Build and deploy your first Generative AI workload on Kubernetes with confidence Learn to optimize costly resources such as GPUs using fractional allocation Spot Instances and automation Gain hands on insights into observability infrastructure automation and scaling Generative AI workloads Purchase of the print or Kindle book includes a free PDF eBook Book

Description Generative AI GenAI is revolutionizing industries from chatbots to recommendation engines to content creation but deploying these systems at scale poses significant challenges in infrastructure scalability security and cost management This book is your practical guide to designing optimizing and deploying GenAI workloads with Kubernetes K8s the leading container orchestration platform trusted by AI pioneers Whether you're working with large language models transformer systems or other GenAI applications this book helps you confidently take projects from concept to production You'll get to grips with foundational concepts in machine learning and GenAI understanding how to align projects with business goals and KPIs From there you'll set up Kubernetes clusters in the cloud deploy your first workload and build a solid infrastructure But your learning doesn't stop at deployment The chapters highlight essential strategies for scaling GenAI workloads in production covering model optimization workflow automation scaling GPU efficiency observability security and resilience By the end of this book you'll be fully equipped to confidently design and deploy scalable secure resilient and cost effective GenAI solutions on Kubernetes What you will learn Explore GenAI deployment stack agents RAG and model fine tuning Implement HPA VPA and Karpenter for efficient autoscaling Optimize GPU usage with fractional allocation MIG and MPS

setups Reduce cloud costs and monitor spending with Kubecost tools Secure GenAI workloads with RBAC encryption and service meshes Monitor system health and performance using Prometheus and Grafana Ensure high availability and disaster recovery for GenAI systems Automate GenAI pipelines for continuous integration and delivery Who this book is for This book is for solutions architects product managers engineering leads DevOps teams GenAI developers and AI engineers It is also suitable for students and academics learning about GenAI Kubernetes and cloud native technologies A basic understanding of cloud computing and AI concepts is needed but no prior knowledge of Kubernetes is required **Parallel Processing,**

1980 to 2020 Robert Kuhn, David Padua, 2022-05-31 This historical survey of parallel processing from 1980 to 2020 is a follow up to the authors 1981 Tutorial on Parallel Processing which covered the state of the art in hardware programming languages and applications Here we cover the evolution of the field since 1980 in parallel computers ranging from the Cyber 205 to clusters now approaching an exaflop to multicore microprocessors and Graphic Processing Units GPUs in commodity personal devices parallel programming notations such as OpenMP MPI message passing and CUDA streaming notation and seven parallel applications such as finite element analysis and computer vision Some things that looked like they would be major trends in 1981 such as big Single Instruction Multiple Data arrays disappeared for some time but have been revived recently in deep neural network processors There are now major trends that did not exist in 1980 such as GPUs distributed memory machines and parallel processing in nearly every commodity device This book is intended for those that already have some knowledge of parallel processing today and want to learn about the history of the three areas In parallel hardware every major parallel architecture type from 1980 has scaled up in performance and scaled out into commodity microprocessors and GPUs so that every personal and embedded device is a parallel processor There has been a confluence of parallel architecture types into hybrid parallel systems Much of the impetus for change has been Moore's Law but as clock speed increases have stopped and feature size decreases have slowed down there has been increased demand on parallel processing to continue performance gains In programming notations and compilers we observe that the roots of today's programming notations existed before 1980 And that through a great deal of research the most widely used programming notations today although the result of much broadening of these roots remain close to target system architectures allowing the programmer to almost explicitly use the target's parallelism to the best of their ability The parallel versions of applications directly or indirectly impact nearly everyone computer expert or not and parallelism has brought about major breakthroughs in numerous application areas Seven parallel applications are studied in this book **Computer**

Architecture John L. Hennessy, David A. Patterson, Krste Asanović, 2012 The computing world is in the middle of a revolution mobile clients and cloud computing have emerged as the dominant paradigms driving programming and hardware innovation This book focuses on the shift exploring the ways in which software and technology in the cloud are accessed by cell phones tablets laptops and more The Search for ExtraTerrestrial Intelligence Stelio Montebugnoli, Andrea Melis, Nicolò

Antonietti,2021-03-27 This book presents the latest knowledge of the newly discovered Earth like exoplanets and reviews improvements in both radio and optical SETI A key aim is to stimulate fresh discussion on algorithms that will be of high value in this extremely complicated search Exoplanets resembling Earth could well be able to sustain life and support the evolution of technological civilizations but to date all searches for such life forms have proved fruitless The failings of SETI observations are well recognized and a new search approach is necessary In this book different detection algorithms that exploit state of the art low cost and extremely fast multiprocessors are examined and compared Novel methods such as the agnostic entropy and high sensitivity blind signal extraction algorithms should represent a quantum leap forward in SETI The book is of interest to all researchers in the field and hopefully stimulates significant progress in the search for extraterrestrial intelligence **Secure Smart Embedded Devices, Platforms and Applications** Konstantinos

Markantonakis,Keith Mayes,2013-09-14 New generations of IT users are increasingly abstracted from the underlying devices and platforms that provide and safeguard their services As a result they may have little awareness that they are critically dependent on the embedded security devices that are becoming pervasive in daily modern life Secure Smart Embedded Devices Platforms and Applications provides a broad overview of the many security and practical issues of embedded devices tokens and their operation systems platforms and main applications It also addresses a diverse range of industry government initiatives and considerations while focusing strongly on technical and practical security issues The benefits and pitfalls of developing and deploying applications that rely on embedded systems and their security functionality are presented A sufficient level of technical detail to support embedded systems is provided throughout the text although the book is quite readable for those seeking awareness through an initial overview of the topics This edited volume benefits from the contributions of industry and academic experts and helps provide a cross discipline overview of the security and practical issues for embedded systems tokens and platforms It is an ideal complement to the earlier work Smart Cards Tokens Security and Applications from the same editors Artificial Intelligence Law Edward Swan,2024-03-18 It is inevitable given the

enormous media driven concern generated by the recent application of artificial intelligence AI to an ever expanding spectrum of day to day human experience that the need for a clearly articulated legal response has become imperative This book both clarifies the controversial issues surrounding the use of AI and explores in great detail how far from being unregulated the creation distribution and operation of AI systems currently is and will remain subject to a vast array of existing laws and regulations all over the world Demonstrating beyond any doubt that the traditional concepts of legal responsibility including duty of care negligence and compensation for damages will always be applicable to those humans who create and or use artificially intelligent things or systems the author shows how AI systems are clearly implicated in numerous existing legal regimes including the following relevant provisions under international law and EU law applicable provisions in the laws of the United States the United Kingdom France China India Japan South Korea and Singapore and

numerous national provisions in the legal fields of health and safety intellectual property competition privacy and data protection and military engagement However given the lack of international consensus on this vitally important issue the author suggests that any worldwide agreement on the legal responsibilities relating to the use of AI will need to be carefully defined and that provisions will need to be reviewed to determine how they will apply to any new range of artificially intelligent creations The purpose of this book is to review those legal concepts throughout the world that currently govern the application of AI and to comment on modifications or extensions of the rule of law that are being proposed as necessary to serve and protect humanity in relation to the expanding applications of AI It is important that anyone who uses or is affected by AI products understands the relationship between existing laws and regulations in major markets around the world and those areas where initial regulations may be required For them for their counsel and for the various policy and regulatory authorities confronted with AI issues this book will prove an essential guide

Linux Rheinwerk Publishing, Inc, Michael Kofler, 2025-06-17 Master Linux installation shell scripting system tuning and server setup with clear practical guidance for all skill levels Key Features Comprehensive content spanning from installation to server configuration ensures wide applicability Detailed shell scripting sections explain core concepts for automation In depth system and network administration guidance covers real world scenarios Book Description This guide begins with Linux fundamentals including an overview of its history distributions and installation methods Readers learn to install Linux on various hardware configurations while understanding open source licensing and partitioning The book then introduces desktop environments like GNOME and KDE showing how to navigate and customize them for productivity Building on this foundation readers develop command line proficiency mastering terminal usage and shell scripting with Bash and Zsh The book covers file and process management network tools and package management giving readers confidence to optimize and secure their systems Later chapters dive into system administration topics such as kernel compilation bootloader configuration and virtualization with VirtualBox and QEMU Finally the book focuses on server installation secure shell configuration web and mail server setup and file sharing via Samba It also addresses backup strategies firewall setup and security enhancements with SELinux and AppArmor preparing readers to maintain reliable secure Linux environments in professional or personal contexts What you will learn Install and configure Linux on various popular distributions Customize and operate GNOME and KDE desktop environments efficiently Create debug and automate tasks using Bash and Zsh shell scripts Manage files permissions and processes through command line tools Set up and secure network services including SSH and Apache servers Deploy virtual machines and maintain Linux servers with best practices Who this book is for This book is designed for learners eager to understand Linux deeply from beginners to intermediate users It is ideal for hobbyists IT professionals and students with basic computer literacy who want to progress from installation through system configuration to advanced server and security management

Parallel Processing and Applied Mathematics Roman Wyrzykowski, Ewa Deelman, Jack

Dongarra, Konrad Karczewski, 2020-03-19 The two volume set LNCS 12043 and 12044 constitutes revised selected papers from the 13th International Conference on Parallel Processing and Applied Mathematics PPAM 2019 held in Bialystok Poland in September 2019 The 91 regular papers presented in these volumes were selected from 161 submissions For regular tracks of the conference 41 papers were selected from 89 submissions The papers were organized in topical sections named as follows Part I numerical algorithms and parallel scientific computing emerging HPC architectures performance analysis and scheduling in HPC systems environments and frameworks for parallel distributed cloud computing applications of parallel computing parallel non numerical algorithms soft computing with applications special session on GPU computing special session on parallel matrix factorizations Part II workshop on language based parallel programming models WLPP 2019 workshop on models algorithms and methodologies for hybrid parallelism in new HPC systems workshop on power and energy aspects of computations PEAC 2019 special session on tools for energy efficient computing workshop on scheduling for parallel computing SPC 2019 workshop on applied high performance numerical algorithms for PDEs minisymposium on HPC applications in physical sciences minisymposium on high performance computing interval methods workshop on complex collective systems Chapters Parallel Adaptive Cross Approximation for the Multi trace Formulation of Scattering Problems and A High Order Discontinuous Galerkin Solver with Dynamic Adaptive Mesh Refinement to Simulate Cloud Formation Processes are available open access under a Creative Commons Attribution 4.0 International License via link [springer.com](https://www.springer.com)

MLOps with Red Hat OpenShift Ross Brigoli, Faisal Masood, 2024-01-31 Build and manage MLOps pipelines with this practical guide to using Red Hat OpenShift Data Science unleashing the power of machine learning workflows Key Features Grasp MLOps and machine learning project lifecycle through concept introductions Get hands on with provisioning and configuring Red Hat OpenShift Data Science Explore model training deployment and MLOps pipeline building with step by step instructions Purchase of the print or Kindle book includes a free PDF eBook Book Description MLOps with OpenShift offers practical insights for implementing MLOps workflows on the dynamic OpenShift platform As organizations worldwide seek to harness the power of machine learning operations this book lays the foundation for your MLOps success Starting with an exploration of key MLOps concepts including data preparation model training and deployment you'll prepare to unleash OpenShift capabilities kicking off with a primer on containers pods operators and more With the groundwork in place you'll be guided to MLOps workflows uncovering the applications of popular machine learning frameworks for training and testing models on the platform As you advance through the chapters you'll focus on the open source data science and machine learning platform Red Hat OpenShift Data Science and its partner components such as Pachyderm and Intel OpenVino to understand their role in building and managing data pipelines as well as deploying and monitoring machine learning models Armed with this comprehensive knowledge you'll be able to implement MLOps workflows on the OpenShift platform proficiently What you will learn Build a solid foundation in key MLOps concepts and

best practices Explore MLOps workflows covering model development and training Implement complete MLOps workflows on the Red Hat OpenShift platform Build MLOps pipelines for automating model training and deployments Discover model serving approaches using Seldon and Intel OpenVino Get to grips with operating data science and machine learning workloads in OpenShift Who this book is for This book is for MLOps and DevOps engineers data architects and data scientists interested in learning the OpenShift platform Particularly developers who want to learn MLOps and its components will find this book useful Whether you're a machine learning engineer or software developer this book serves as an essential guide to building scalable and efficient machine learning workflows on the OpenShift platform **Generation AI** Matt

Britton, 2025-04-29 A clear practical guidebook to being a parent and professional in a world transformed by AI In *Generation AI* lifelong entrepreneur futurist and consumer trend expert Matt Britton explores how artificial intelligence is reshaping society from consumer behavior to education work relationships and health As the first generation born into an AI enabled world Generation Alpha will experience a paradigm shift in lifestyle and career paths Britton examines the unprecedented opportunities AI presents personalized learning advancements in healthcare and automated consumer experiences and processes Britton also confronts ethical and societal challenges from privacy issues and economic disparity to the potential impact on mental health and job displacement Balancing optimism with caution Britton offers a forward looking guide for leaders parents and individuals on how to navigate a future where AI drives cultural and economic transformation *Generation AI* explores timely topics including Consumer Behavior AI driven personalized shopping and the role of the creator economy in capturing mindshare Education Exploring the future of education and the need for learnings to reinvent itself from a curriculum centered on memorization to one focused on problem solving and creativity Work Career A deep dive into the AI powered developments driving disruption in the workplace and uncovering the skill sets needed to thrive Mental Health Relationships Examines AI's potential to both connect and isolate impacting human interaction Ethics Privacy The need for AI guardrails to protect privacy and ensure fairness amid rapid technological advances *Generation AI* is a comprehensive and highly practical guide for all individuals looking to future proof themselves in this brave new world especially Millennial parents who are raising the first AI generation grappling with the disruption of AI in their own lives and seeking to understand the next stages of our technological evolution *Caffe2 Quick Start Guide* Ashwin Nanjappa, 2019-05-31 Build

and train scalable neural network models on various platforms by leveraging the power of Caffe2 Key Features Migrate models trained with other deep learning frameworks on Caffe2 Integrate Caffe2 with Android or iOS and implement deep learning models for mobile devices Leverage the distributed capabilities of Caffe2 to build models that scale easily Book Description Caffe2 is a popular deep learning library used for fast and scalable training and inference of deep learning models on various platforms This book introduces you to the Caffe2 framework and shows how you can leverage its power to build train and deploy efficient neural network models at scale It will cover the topics of installing Caffe2 composing

networks using its operators training models and deploying models to different architectures It will also show how to import models from Caffe and from other frameworks using the ONNX interchange format It covers the topic of deep learning accelerators such as CPU and GPU and shows how to deploy Caffe2 models for inference on accelerators using inference engines Caffe2 is built for deployment to a diverse set of hardware using containers on the cloud and resource constrained hardware such as Raspberry Pi which will be demonstrated By the end of this book you will be able to not only compose and train popular neural network models with Caffe2 but also be able to deploy them on accelerators to the cloud and on resource constrained platforms such as mobile and embedded hardware What you will learn

- Build and install Caffe2
- Compose neural networks
- Train neural network on CPU or GPU
- Import a neural network from Caffe
- Import deep learning models from other frameworks
- Deploy models on CPU or GPU accelerators using inference engines
- Deploy models at the edge and in the cloud

Who this book is for Data scientists and machine learning engineers who wish to create fast and scalable deep learning models in Caffe2 will find this book to be very useful Some understanding of the basic machine learning concepts and prior exposure to programming languages like C and Python will be useful

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