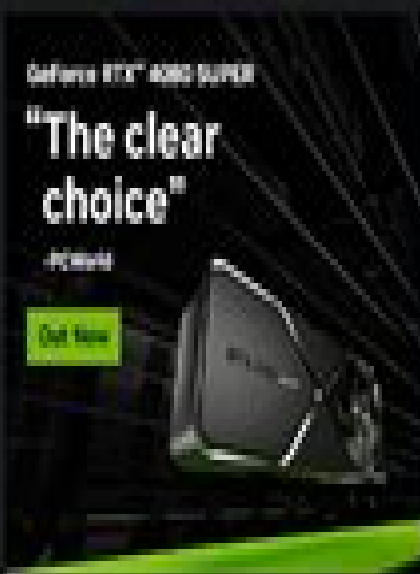


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Machine Learning and Deep Learning in Real-Time Applications Mahrishi, Mehul, Hiran, Kamal Kant, Meena, Gaurav, Sharma, Paawan, 2020-04-24 Artificial intelligence and its various components are rapidly engulfing almost every professional industry Specific features of AI that have proven to be vital solutions to numerous real world issues are machine learning and deep learning These intelligent agents unlock higher levels of performance and efficiency creating a wide span of industrial applications However there is a lack of research on the specific uses of machine deep learning in the professional realm Machine Learning and Deep Learning in Real Time Applications provides emerging research exploring the theoretical and practical aspects of machine learning and deep learning and their implementations as well as their ability to solve real world problems within several professional disciplines including healthcare business and computer science Featuring coverage on a broad range of topics such as image processing medical improvements and smart grids this book is ideally designed for researchers academicians scientists industry experts scholars IT professionals engineers and students seeking current research on the multifaceted uses and implementations of machine learning and deep learning across the globe

GPU Programming in MATLAB Nikolaos Ploskas, Nikolaos Samaras, 2016-08-25 GPU programming in MATLAB is intended for scientists engineers or students who develop or maintain applications in MATLAB and would like to accelerate their codes using GPU programming without losing the many benefits of MATLAB The book starts with coverage of the Parallel Computing Toolbox and other MATLAB toolboxes for GPU computing which allow applications to be ported straightforwardly onto GPUs without extensive knowledge of GPU programming The next part covers built in GPU enabled features of MATLAB including options to leverage GPUs across multicore or different computer systems Finally advanced material includes CUDA code in MATLAB and optimizing existing GPU applications Throughout the book examples and source codes illustrate every concept so that readers can immediately apply them to their own development Provides in depth comprehensive coverage of GPUs with MATLAB including the parallel computing toolbox and built in features for other MATLAB toolboxes Explains how to accelerate computationally heavy applications in MATLAB without the need to re write them in another language Presents case studies illustrating key concepts across multiple fields Includes source code sample datasets and lecture slides

CUDA Programming Fundamentals Richard Johnson, 2025-06-11 CUDA Programming Fundamentals CUDA Programming Fundamentals is a comprehensive guide designed for engineers researchers and students seeking to master

parallel computing with NVIDIA's CUDA platform Beginning with the foundational differences between CPU and GPU architectures this book details the evolution of CUDA as a transformative technology in general purpose GPU computing Readers are equipped with practical instructions for setting up the CUDA development environment across major operating systems and are introduced to the full breadth of the CUDA ecosystem and compilation model ensuring a robust understanding before diving into hands on programming The core chapters break down CUDA's programming model elucidating the principles behind threads blocks and grids while offering thorough explanations of device functions kernel launches and synchronization techniques The book delves deeply into CUDA's intricate memory architecture covering global shared constant and unified memory as well as efficient memory allocation for complex multi dimensional data Best practices for performance tuning are highlighted with guidance on profiling tools optimizing memory access patterns minimizing warp divergence and maximizing throughput crucial skills for building scalable high performance applications Advancing beyond fundamental concepts the text explores advanced patterns for algorithm design asynchronous programming with streams and events and the integration of CUDA with Python OpenGL and distributed systems Real world techniques for debugging profiling and error handling are covered alongside strategies for multi GPU and hybrid computing environments With in depth discussions on numerical precision security and maintainability *CUDA Programming Fundamentals* prepares readers to harness the power of modern GPU hardware while anticipating future trends and innovations in the field of accelerated computing

IBM PowerAI: Deep Learning Unleashed on IBM Power Systems Servers Dino Quintero,Bing He,Bruno C. Faria,Alfonso Jara,Chris Parsons,Shota Tsukamoto,Richard Wale,IBM Redbooks,2019-06-05 This IBM Redbooks publication is a guide about the IBM PowerAI Deep Learning solution This book provides an introduction to artificial intelligence AI and deep learning DL IBM PowerAI and components of IBM PowerAI deploying IBM PowerAI guidelines for working with data and creating models an introduction to IBM Spectrum™ Conductor Deep Learning Impact DLI and case scenarios IBM PowerAI started as a package of software distributions of many of the major DL software frameworks for model training such as TensorFlow Caffe Torch Theano and the associated libraries such as CUDA Deep Neural Network cuDNN The IBM PowerAI software is optimized for performance by using the IBM Power Systems™ servers that are integrated with NVLink The AI stack foundation starts with servers with accelerators graphical processing unit GPU accelerators are well suited for the compute intensive nature of DL training and servers with the highest CPU to GPU bandwidth such as IBM Power Systems servers enable the high performance data transfer that is required for larger and more complex DL models This publication targets technical readers including developers IT specialists systems architects brand specialist sales team and anyone looking for a guide about how to understand the IBM PowerAI Deep Learning architecture framework configuration application and workload configuration and user infrastructure

The LLM Guide-Extended Edition shivam kumar,2025-10-24 Technical guide for AI enthusiasts and developers on creating and fine tuning LLMs like ChatGPT and

Claude Deep Learning with Microsoft Cognitive Toolkit Quick Start Guide Willem Meints, 2019-03-28 Learn how to train popular deep learning architectures such as autoencoders convolutional and recurrent neural networks while discovering how you can use deep learning models in your software applications with Microsoft Cognitive Toolkit Key Features Understand the fundamentals of Microsoft Cognitive Toolkit and set up the development environment Train different types of neural networks using Cognitive Toolkit and deploy it to production Evaluate the performance of your models and improve your deep learning skills Book Description Cognitive Toolkit is a very popular and recently open sourced deep learning toolkit by Microsoft Cognitive Toolkit is used to train fast and effective deep learning models This book will be a quick introduction to using Cognitive Toolkit and will teach you how to train and validate different types of neural networks such as convolutional and recurrent neural networks This book will help you understand the basics of deep learning You will learn how to use Microsoft Cognitive Toolkit to build deep learning models and discover what makes this framework unique so that you know when to use it This book will be a quick no nonsense introduction to the library and will teach you how to train different types of neural networks such as convolutional neural networks recurrent neural networks autoencoders and more using Cognitive Toolkit Then we will look at two scenarios in which deep learning can be used to enhance human capabilities The book will also demonstrate how to evaluate your models performance to ensure it trains and runs smoothly and gives you the most accurate results Finally you will get a short overview of how Cognitive Toolkit fits in to a DevOps environment What you will learn Set up your deep learning environment for the Cognitive Toolkit on Windows and Linux Pre process and feed your data into neural networks Use neural networks to make efficient predictions and recommendations Train and deploy efficient neural networks such as CNN and RNN Detect problems in your neural network using TensorBoard Integrate Cognitive Toolkit with Azure ML Services for effective deep learning Who this book is for Data Scientists Machine learning developers AI developers who wish to train and deploy effective deep learning models using Microsoft CNTK will find this book to be useful Readers need to have experience in Python or similar object oriented language like C or Java *Mastering CUDA C++ Programming: From Fundamentals to Advanced GPU Computing* Toby Webber, 2025-07-31 Unleash the Power of Parallel Processing with CUDA C Mastering CUDA C Programming Dive into the world of GPU programming and accelerate your applications to new heights Are you ready to harness the incredible power of parallel processing Mastering CUDA C Programming is your comprehensive guide to unlocking the full potential of NVIDIA GPUs for general purpose computing Whether you re a curious beginner or a seasoned programmer this book will equip you with the knowledge and skills to write high performance CUDA C applications What is CUDA CUDA Compute Unified Device Architecture is a parallel computing platform and programming model developed by NVIDIA It allows you to use GPUs for general purpose processing accelerating applications in fields like artificial intelligence scientific computing and high performance data processing Why Choose This Book Crystal Clear Explanations Complex concepts are broken down into

digestible chunks with plenty of examples and analogies to aid understanding Even if you re new to GPU programming or parallel programming you ll grasp the fundamentals with ease Hands On Learning Solidify your understanding with practical projects that guide you through building real world CUDA applications You ll find CUDA examples throughout the book illustrating key concepts and techniques Optimization Mastery Master advanced techniques for CUDA optimization including CUDA streams shared memory and dynamic parallelism to achieve peak performance and efficiency in your code Real World Applications Explore how CUDA C is used in diverse fields from deep learning and machine learning to scientific computing and image processing We ll even delve into cutting edge applications in AI autonomous systems and robotics Future Proof Your Skills Get a glimpse into the future of NVIDIA CUDA and its role in emerging technologies like AI and quantum computing What You ll Learn Fundamentals of CUDA Programming Understand the basics of CUDA programming with CUDA C including GPU architecture memory management and thread organization CUDA Libraries Leverage powerful CUDA libraries like cuBLAS and cuFFT to accelerate linear algebra and signal processing tasks Streamlining Development with Thrust Explore the Thrust library to simplify CUDA development and write more concise and efficient code Debugging and Profiling Master debugging techniques and profiling tools to identify and resolve issues in your CUDA code Advanced Optimization Dive deep into advanced optimization techniques including memory coalescing warp divergence and kernel fusion Multi GPU Programming Learn how to harness the power of multiple GPUs to tackle even larger and more demanding computational challenges A Comprehensive Guide for All Levels This book serves as both a CUDA tutorial for beginners and a comprehensive CUDA guide for experienced programmers It s your one stop resource for mastering CUDA C and unlocking the incredible power of parallel processing Don t miss out on this opportunity to accelerate your applications and become a proficient CUDA C programmer Order your copy of Mastering CUDA C Programming today and start your journey into the world of high performance computing

[Hands-On Intelligent Agents with OpenAI Gym](#) Praveen Palanisamy,2018-07-31

Implement intelligent agents using PyTorch to solve classic AI problems play console games like Atari and perform tasks such as autonomous driving using the CARLA driving simulator Key Features Explore the OpenAI Gym toolkit and interface to use over 700 learning tasks Implement agents to solve simple to complex AI problems Study learning environments and discover how to create your own Book Description Many real world problems can be broken down into tasks that require a series of decisions to be made or actions to be taken The ability to solve such tasks without a machine being programmed requires a machine to be artificially intelligent and capable of learning to adapt This book is an easy to follow guide to implementing learning algorithms for machine software agents in order to solve discrete or continuous sequential decision making and control tasks Hands On Intelligent Agents with OpenAI Gym takes you through the process of building intelligent agent algorithms using deep reinforcement learning starting from the implementation of the building blocks for configuring training logging visualizing testing and monitoring the agent You will walk through the process of building intelligent agents

from scratch to perform a variety of tasks In the closing chapters the book provides an overview of the latest learning environments and learning algorithms along with pointers to more resources that will help you take your deep reinforcement learning skills to the next level What you will learn Explore intelligent agents and learning environments Understand the basics of RL and deep RL Get started with OpenAI Gym and PyTorch for deep reinforcement learning Discover deep Q learning agents to solve discrete optimal control tasks Create custom learning environments for real world problems Apply a deep actor critic agent to drive a car autonomously in CARLA Use the latest learning environments and algorithms to upgrade your intelligent agent development skills Who this book is for If you re a student game machine learning developer or AI enthusiast looking to get started with building intelligent agents and algorithms to solve a variety of problems with the OpenAI Gym interface this book is for you You will also find this book useful if you want to learn how to build deep reinforcement learning based agents to solve problems in your domain of interest Though the book covers all the basic concepts that you need to know some working knowledge of Python programming language will help you get the most out of it

GEFORCE GTX 1080 Cyko Games,2017-05-26 This book is designed to help you understanding the NVIDIA GEFORCE GTX 1080 before buying If you want to buy new GTX 1080 or want to upgrade from GTX 900 series to GTX 1080 I will recommend this book to you to get deep understanding and knowledge about GTX 1080 like Pascal Architecture Review Overclocking Benchmark Specs Features and DX12 etc Although it s possible to learn about GTX 1080 from internet surfing but it s a lot easier and faster to use this book It consolidate everything you need to know in one place This is the whole main idea of this book It presents in logical and sequential order that you won t find anywhere else in one place TABLE OF CONTENTS 1 OVERVIEW 2 SPECS 3 SYSTEM REQUIREMENTS 4 UNPACKING 5 HARDWARE INSTALLATION 6 SOFTWARE INSTALLATION 7 SLI 8 FEATURES 9 PASCAL ARCHITECTURE 10 REVIEW 11 BENCHMARK 12 OVERCLOCK 13 DIRECTX12 14 VR READY 15 LED VISUALIZER

Hardware Acceleration of Computational Holography Tomoyoshi Shimobaba,Tomoyoshi Ito,2023-07-17 This book explains the hardware implementation of computational holography and hardware acceleration techniques along with a number of concrete example source codes that enable fast computation Computational holography includes computer based holographic technologies such as computer generated hologram and digital holography for which acceleration of wave optics computation is highly desirable This book describes hardware implementations on CPUs Central Processing Units GPUs Graphics Processing Units and FPGAs Field Programmable Gate Arrays This book is intended for readers involved in holography as well as anyone interested in hardware acceleration

The PC and Gadget Help Desk Mark Edward Soper,2014-10-04 A Do It Yourself Guide To Troubleshooting and Repairing Your EASY comprehensive technology troubleshooter PCs smartphones tablets networks cameras home theater and more all in one book We all use technology and we all have problems with it Don t get frustrated and don t waste money on costly repair or support calls Solve the problems yourself with the one guide that makes it easy The PC and Gadget Help Desk

Using clear pictures handy symptom tables and easy to use flowcharts Mark Edward Soper walks you step by step through identifying solving and preventing hundreds of today's most aggravating tech problems Soper covers all your major platforms iPhones iPads Android devices Windows systems and more He even helps you fix the weird problems that happen when you use them together Regain lost Internet access and fix broken Wi-Fi connections Solve problems with viewing and sharing media or other files Track down power problems wherever they arise Troubleshoot printing problems and print from smartphones or tablets Fix missing video or audio on your HDTV or home theater system Get syncing working right on your Apple or Android device Improve your PC's 3D gaming performance Identify and replace flaky memory chips Prevent overheating that can damage your equipment Solve common problems with digital cameras and DV camcorders Troubleshoot iOS or Android antennas updates screens and connectivity Get FaceTime working right on your iPhone or iPad Troubleshoot eReaders and display your eBooks on additional devices Sensibly decide whether to upgrade repair or replace Mark Edward Soper has spent 30 years as an instructor and corporate trainer helping thousands of people work more happily with personal technology He is the author of PC Help Desk in a Book and is the co-author of Leo Laporte's PC Help Desk as well as more than 25 other books on Windows digital imaging networking the Internet IT certification and computer troubleshooting Soper is a CompTIA A Certified computer technician and Microsoft Certified Professional **BONUS ONLINE VIDEOS** Includes access to free studio quality how-to videos that make troubleshooting and repair even easier

Generative AI from Beginner to Paid Professional, Part 3 Bolakale Aremu, 2024-11-19 Dive deep into the world of Hugging Face and unlock the tools you need to create fine-tune and deploy state-of-the-art AI models Part 3 of the Generative AI from Beginner to Paid Professional series is your complete guide to mastering Hugging Face's powerful ecosystem through practical projects and real-world applications This book takes you beyond the basics providing hands-on exercises and expert insights to help you leverage Hugging Face for NLP vision tasks and beyond You'll not only learn to work with pretrained models but also gain the skills to customize and deploy AI solutions that solve real-world problems What's inside Practical Hands-On Learning Master Hugging Face tools by building projects like text summarization chatbots and image classification Advanced Techniques Learn fine-tuning model optimization and efficient inference for high-performance applications Real-World Deployments Understand how to host models on Hugging Face Spaces and integrate them into pipelines with tools like LangChain Production Ready Projects Get step-by-step guidance on creating deployable AI solutions from concept to implementation By the end of this book you'll have the confidence and skills to design and deliver professional-grade AI solutions whether for personal projects freelance opportunities or enterprise applications Who this book is for This guide is perfect for data scientists AI enthusiasts and developers eager to take their skills to the next level and monetize their knowledge Whether you're a student or a professional Part 3 will prepare you to build innovative solutions and thrive in the booming AI industry Take the leap into AI mastery and start creating the future *Learning PyTorch 2.0,*

Second Edition Matthew Rosch, 2024-10-05 Learning PyTorch 2 0 Second Edition is a fast learning hands on book that emphasizes practical PyTorch scripting and efficient model development using PyTorch 2 3 and CUDA 12 This edition is centered on practical applications and presents a concise methodology for attaining proficiency in the most recent features of PyTorch The book presents a practical program based on the fish dataset which provides step by step guidance through the processes of building training and deploying neural networks with each example prepared for immediate implementation Given your familiarity with machine learning and neural networks this book offers concise explanations of foundational topics allowing you to proceed directly to the practical advanced aspects of PyTorch programming The key learnings include the design of various types of neural networks the use of torch compile for performance optimization the deployment of models using TorchServe and the implementation of quantization for efficient inference Furthermore you will also learn to migrate TensorFlow models to PyTorch using the ONNX format The book employs essential libraries including torchvision torchserve tf2onnx onnxruntime and requests to facilitate seamless integration of PyTorch with production environments Regardless of whether the objective is to fine tune models or to deploy them on a large scale this second edition is designed to ensure maximum efficiency and speed with practical PyTorch scripting at the forefront of each chapter Key Learnings Master tensor manipulations and advanced operations using PyTorch s efficient tensor libraries Build feedforward convolutional and recurrent neural networks from scratch Implement transformer models for modern natural language processing tasks Use CUDA 12 and mixed precision training AMP to accelerate model training and inference Deploy PyTorch models in production using TorchServe including multi model serving and versioning Migrate TensorFlow models to PyTorch using ONNX format for seamless cross framework compatibility Optimize neural network architectures using torch compile for improved speed and efficiency Utilize PyTorch s Quantization API to reduce model size and speed up inference Setup custom layers and architectures for neural networks to tackle domain specific problems Monitor and log model performance in real time using TorchServe s built in tools and configurations Table of Content Introduction To PyTorch 2 3 and CUDA 12 Getting Started with Tensors Building Neural Networks with PyTorch Training Neural Networks Advanced Neural Network Architectures Quantization and Model Optimization Migrating TensorFlow to PyTorch Deploying PyTorch Models with TorchServe

Deep Learning with Theano Christopher Bourez, 2017-07-31 Develop deep neural networks in Theano with practical code examples for image classification machine translation reinforcement agents or generative models About This Book Learn Theano basics and evaluate your mathematical expressions faster and in an efficient manner Learn the design patterns of deep neural architectures to build efficient and powerful networks on your datasets Apply your knowledge to concrete fields such as image classification object detection chatbots machine translation reinforcement agents or generative models Who This Book Is For This book is indented to provide a full overview of deep learning From the beginner in deep learning and artificial intelligence to the data scientist who wants to become familiar with Theano and its supporting libraries or have an

extended understanding of deep neural nets Some basic skills in Python programming and computer science will help as well as skills in elementary algebra and calculus What You Will Learn Get familiar with Theano and deep learning Provide examples in supervised unsupervised generative or reinforcement learning Discover the main principles for designing efficient deep learning nets convolutions residual connections and recurrent connections Use Theano on real world computer vision datasets such as for digit classification and image classification Extend the use of Theano to natural language processing tasks for chatbots or machine translation Cover artificial intelligence driven strategies to enable a robot to solve games or learn from an environment Generate synthetic data that looks real with generative modeling Become familiar with Lasagne and Keras two frameworks built on top of Theano In Detail This book offers a complete overview of Deep Learning with Theano a Python based library that makes optimizing numerical expressions and deep learning models easy on CPU or GPU The book provides some practical code examples that help the beginner understand how easy it is to build complex neural networks while more experimented data scientists will appreciate the reach of the book addressing supervised and unsupervised learning generative models reinforcement learning in the fields of image recognition natural language processing or game strategy The book also discusses image recognition tasks that range from simple digit recognition image classification object localization image segmentation to image captioning Natural language processing examples include text generation chatbots machine translation and question answering The last example deals with generating random data that looks real and solving games such as in the Open AI gym At the end this book sums up the best performing nets for each task While early research results were based on deep stacks of neural layers in particular convolutional layers the book presents the principles that improved the efficiency of these architectures in order to help the reader build new custom nets Style and approach It is an easy to follow example book that teaches you how to perform fast efficient computations in Python Starting with the very basics NumPy installing Theano this book will take you to the smooth journey of implementing Theano for advanced computations for machine learning and deep learning

[Hands-On GPU-Accelerated Computer Vision with OpenCV and CUDA](#) Bhaumik Vaidya, 2018-09-26 Discover how CUDA allows OpenCV to handle complex and rapidly growing image data processing in computer and machine vision by accessing the power of GPU Key Features Explore examples to leverage the GPU processing power with OpenCV and CUDA Enhance the performance of algorithms on embedded hardware platforms Discover C and Python libraries for GPU acceleration Book Description Computer vision has been revolutionizing a wide range of industries and OpenCV is the most widely chosen tool for computer vision with its ability to work in multiple programming languages Nowadays in computer vision there is a need to process large images in real time which is difficult to handle for OpenCV on its own This is where CUDA comes into the picture allowing OpenCV to leverage powerful NVIDIA GPUs This book provides a detailed overview of integrating OpenCV with CUDA for practical applications To start with you'll understand GPU programming with CUDA an essential aspect for computer vision developers who have never worked with

GPUs You'll then move on to exploring OpenCV acceleration with GPUs and CUDA by walking through some practical examples. Once you have got to grips with the core concepts you'll familiarize yourself with deploying OpenCV applications on NVIDIA Jetson TX1, which is popular for computer vision and deep learning applications. The last chapters of the book explain PyCUDA, a Python library that leverages the power of CUDA and GPUs for accelerations and can be used by computer vision developers who use OpenCV with Python. By the end of this book you'll have enhanced computer vision applications with the help of this book's hands-on approach. What you will learn: Understand how to access GPU device properties and capabilities from CUDA programs; Learn how to accelerate searching and sorting algorithms; Detect shapes such as lines and circles in images; Explore object tracking and detection with algorithms; Process videos using different video analysis techniques in Jetson TX1; Access GPU device properties from the PyCUDA program; Understand how kernel execution works. Who this book is for: This book is a go-to guide for you if you are a developer working with OpenCV and want to learn how to process more complex image data by exploiting GPU processing. A thorough understanding of computer vision concepts and programming languages such as C or Python is expected.

TensorFlow: Powerful Predictive Analytics with TensorFlow Md. Rezaul Karim, 2018-03-14. Learn how to solve real-life problems using different methods like logic regression, random forests, and SVMs with TensorFlow. Key Features: Understand predictive analytics along with its challenges and best practices; Embedded with assessments that will help you revise the concepts you have learned in this book. Book Description: Predictive analytics discovers hidden patterns from structured and unstructured data for automated decision making in business intelligence. Predictive decisions are becoming a huge trend worldwide, catering to wide industry sectors by predicting which decisions are more likely to give maximum results. TensorFlow, Google's brainchild, is immensely popular and extensively used for predictive analysis. This book is a quick learning guide on all the three types of machine learning that is supervised, unsupervised, and reinforcement learning with TensorFlow. This book will teach you predictive analytics for high-dimensional and sequence data. In particular, you will learn the linear regression model for regression analysis. You will also learn how to use regression for predicting continuous values. You will learn supervised learning algorithms for predictive analytics. You will explore unsupervised learning and clustering using K-means. You will then learn how to predict neighborhoods using K-means and then see another example of clustering audio clips based on their audio features. This book is ideal for developers, data analysts, machine learning practitioners, and deep learning enthusiasts who want to build powerful, robust, and accurate predictive models with the power of TensorFlow. This book is embedded with useful assessments that will help you revise the concepts you have learned in this book. What you will learn: Learn TensorFlow features in a real-life problem followed by detailed TensorFlow installation and configuration; Explore computation graphs; data and programming models; also get an insight into an example of implementing a linear regression model for predictive analytics; Solve the Titanic survival problem using logistic regression, random forests, and SVMs for predictive analytics. Dig

deeper into predictive analytics and find out how to take advantage of it to cluster records belonging to the certain group or class for a dataset of unsupervised observations Learn several examples of how to apply reinforcement learning algorithms for developing predictive models on real life datasets Who this book is for This book is aimed at developers data analysts machine learning practitioners and deep learning enthusiasts who want to build powerful robust and accurate predictive models with the power of TensorFlow

[Python Parallel Programming Cookbook](#) Giancarlo Zaccone,2015-08-26 Master efficient parallel programming to build powerful applications using Python About This Book Design and implement efficient parallel software Master new programming techniques to address and solve complex programming problems Explore the world of parallel programming with this book which is a go to resource for different kinds of parallel computing tasks in Python using examples and topics covered in great depth Who This Book Is For Python Parallel Programming Cookbook is intended for software developers who are well versed with Python and want to use parallel programming techniques to write powerful and efficient code This book will help you master the basics and the advanced of parallel computing What You Will Learn Synchronize multiple threads and processes to manage parallel tasks Implement message passing communication between processes to build parallel applications Program your own GPU cards to address complex problems Manage computing entities to execute distributed computational tasks Write efficient programs by adopting the event driven programming model Explore the cloud technology with Django and Google App Engine Apply parallel programming techniques that can lead to performance improvements In Detail Parallel programming techniques are required for a developer to get the best use of all the computational resources available today and to build efficient software systems From multi core to GPU systems up to the distributed architectures the high computation of programs throughout requires the use of programming tools and software libraries Because of this it is becoming increasingly important to know what the parallel programming techniques are Python is commonly used as even non experts can easily deal with its concepts This book will teach you parallel programming techniques using examples in Python and will help you explore the many ways in which you can write code that allows more than one process to happen at once Starting with introducing you to the world of parallel computing it moves on to cover the fundamentals in Python This is followed by exploring the thread based parallelism model using the Python threading module by synchronizing threads and using locks mutex semaphores queues GIL and the thread pool Next you will be taught about process based parallelism where you will synchronize processes using message passing along with learning about the performance of MPI Python Modules You will then go on to learn the asynchronous parallel programming model using the Python asyncio module along with handling exceptions Moving on you will discover distributed computing with Python and learn how to install a broker use Celery Python Module and create a worker You will also understand the StarCluster framework Pycsp Scoop and Disco modules in Python Further on you will learn GPU programming with Python using the PyCUDA module along with evaluating performance limitations Next you will get

acquainted with the cloud computing concepts in Python using Google App Engine GAE and building your first application with GAE Lastly you will learn about grid computing concepts in Python and using PyGlobus toolkit GFTP and GASS COPY to transfer files and service monitoring in PyGlobus Style and approach A step by step guide to parallel programming using Python with recipes accompanied by one or more programming examples It is a practically oriented book and has all the necessary underlying parallel computing concepts Machine Learning and Deep Learning With Python James

Chen,2023-02-07 This book is a comprehensive guide to understanding and implementing cutting edge machine learning and deep learning techniques using Python programming language Written with both beginners and experienced developers in mind this book provides a thorough overview of the foundations of machine learning and deep learning including mathematical fundamentals optimization algorithms and neural networks Starting with the basics of Python programming this book gradually builds up to more advanced topics such as artificial neural networks convolutional neural networks and generative adversarial networks Each chapter is filled with clear explanations practical examples and step by step tutorials that allow readers to gain a deep understanding of the underlying principles of machine learning and deep learning Throughout the book readers will also learn how to use popular Python libraries and packages including numpy pandas scikit learn TensorFlow and Keras to build and train powerful machine learning and deep learning models for a variety of real world applications such as regression and classification K means support vector machines and recommender systems Whether you are a seasoned data scientist or a beginner looking to enter the world of machine learning this book is the ultimate resource for mastering these cutting edge technologies and taking your skills to the next level High school level of mathematical knowledge and all levels including entry level of programming skills are good to start all Python codes are available at Github com Table Of Contents 1 Introduction 1 1 Artificial Intelligence Machine Learning and Deep Learning 1 2 Whom This Book Is For 1 3 How This Book Is Organized 2 Environments 2 1 Source Codes for This Book 2 2 Cloud Environments 2 3 Docker Hosted on Local Machine 2 4 Install on Local Machines 2 5 Install Required Packages 3 Math Fundamentals 3 1 Linear Algebra 3 2 Calculus 3 3 Advanced Functions 4 Machine Learning 4 1 Linear Regression 4 2 Logistic Regression 4 3 Multinomial Logistic Regression 4 4 K Means Clustering 4 5 Principal Component Analysis PCA 4 6 Support Vector Machine SVM 4 7 K Nearest Neighbors 4 8 Anomaly Detection 4 9 Artificial Neural Network ANN 4 10 Convolutional Neural Network CNN 4 11 Recommendation System 4 12 Generative Adversarial Network References About the Author **IBM High-Performance Computing Insights with IBM Power System AC922 Clustered Solution** Dino

Quintero,Miguel Gomez Gonzalez,Ahmad Y Hussein,Jan-Frode Myklebust,IBM Redbooks,2019-05-02 This IBM Redbooks publication documents and addresses topics to set up a complete infrastructure environment and tune the applications to use an IBM POWER9™ hardware architecture with the technical computing software stack This publication is driven by a CORAL project solution It explores tests and documents how to implement an IBM High Performance Computing HPC

solution on a POWER9 processor based system by using IBM technical innovations to help solve challenging scientific technical and business problems This book documents the HPC clustering solution with InfiniBand on IBM Power Systems™ AC922 8335 GTH and 8335 GTX servers with NVIDIA Tesla V100 SXM2 graphics processing units GPUs with NVLink software components and the IBM Spectrum™ Scale parallel file system This solution includes recommendations about the components that are used to provide a cohesive clustering environment that includes job scheduling parallel application tools scalable file systems administration tools and a high speed interconnect This book is divided into three parts Part 1 focuses on the planners of the solution Part 2 focuses on the administrators and Part 3 focuses on the developers This book targets technical professionals consultants technical support staff IT architects and IT specialists who are responsible for delivering cost effective HPC solutions that help uncover insights among clients data so that they can act to optimize business results product development and scientific discoveries

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