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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

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

Deep Learning with R, Second Edition Francois Chollet,Tomasz Kalinowski,J. J. Allaire,2022-07-26 Deep Learning with R Second Edition shows you how to put deep learning into action It s based on the revised new edition of Fran ois Chollet s bestselling Deep Learning with Python All code and examples have been expertly translated to the R language by Tomasz Kalinowski who maintains the Keras and Tensorflow R packages at RStudio Novices and experienced ML practitioners will love the expert insights practical techniques and

important theory for building neural networks *Kali Linux Cookbook* Willie L. Pritchett, David De Smet, 2013-10-15 When you know what hackers know you're better able to protect your online information. With this book you'll learn just what Kali Linux is capable of and get the chance to use a host of recipes. Key Features: Recipes designed to educate you extensively on the penetration testing principles and Kali Linux tools. Learning to use Kali Linux tools such as Metasploit, Wireshark, and many more through in-depth and structured instructions. Teaching you in an easy-to-follow style full of examples, illustrations, and tips that will suit experts and novices alike. Book Description: In this age where online information is at its most vulnerable, knowing how to execute the same attacks that hackers use to break into your system or network helps you plug the loopholes before it's too late and can save you countless hours and money. Kali Linux is a Linux distribution designed for penetration testing and security auditing. It is the successor to BackTrack, the world's most popular penetration testing distribution. Discover a variety of popular tools of penetration testing such as information gathering, vulnerability identification, exploitation, privilege escalation, and covering your tracks. Packed with practical recipes, this useful guide begins by covering the installation of Kali Linux and setting up a virtual environment to perform your tests. You will then learn how to eavesdrop and intercept traffic on wireless networks, bypass intrusion detection systems, and attack web applications, as well as checking for open ports, performing data forensics, and much more. The book follows the logical approach of a penetration test from start to finish, with many screenshots and illustrations that help to explain each tool in detail. The *Kali Linux Cookbook* will serve as an excellent source of information for the security professional and novice alike. What you will learn: Install and setup Kali Linux on multiple platforms. Customize Kali Linux to your individual needs. Locate vulnerabilities with Nessus and OpenVAS. Exploit vulnerabilities you've found with Metasploit. Learn multiple solutions to escalate privileges on a compromised machine. Understand how to use Kali Linux in all phases of a penetration test. Crack WEP, WPA, WPA2 encryption. Simulate an actual penetration test using Kali Linux. Who this book is for: This book is ideal for anyone who wants to get up to speed with Kali Linux. It would also be an ideal book to use as a reference for seasoned penetration testers.

CUDA by Example Jason Sanders, Edward Kandrot, 2010-07-19 CUDA is a computing architecture designed to facilitate the development of parallel programs. In conjunction with a comprehensive software platform, the CUDA Architecture enables programmers to draw on the immense power of graphics processing units (GPUs) when building high-performance applications. GPUs, of course, have long been available for demanding graphics and game applications. CUDA now brings this valuable resource to programmers working on applications in other domains, including science, engineering, and finance. No knowledge of graphics programming is required; just the ability to program in a modestly extended version of C. *CUDA by Example*, written by two senior members of the CUDA software platform team, shows programmers how to employ this new technology. The authors introduce each area of CUDA development through working examples. After a concise introduction to the CUDA platform and architecture, as well as a quick start guide to CUDA C, the book details the techniques and trade-offs

associated with each key CUDA feature You ll discover when to use each CUDA C extension and how to write CUDA software that delivers truly outstanding performance Major topics covered include Parallel programming Thread cooperation Constant memory and events Texture memory Graphics interoperability Atomics Streams CUDA C on multiple GPUs Advanced atomics Additional CUDA resources All the CUDA software tools you ll need are freely available for download from NVIDIA http://developer.nvidia.com/object/cuda_by_example.html

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 SVM s 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 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

Professional CUDA C Programming John Cheng, Max Grossman, Ty McKercher, 2014-09-09 Break into the powerful world of parallel GPU programming with this down to earth practical guide Designed for professionals across multiple industrial sectors Professional CUDA C Programming presents CUDA a parallel computing platform and programming model designed

to ease the development of GPU programming fundamentals in an easy to follow format and teaches readers how to think in parallel and implement parallel algorithms on GPUs Each chapter covers a specific topic and includes workable examples that demonstrate the development process allowing readers to explore both the hard and soft aspects of GPU programming Computing architectures are experiencing a fundamental shift toward scalable parallel computing motivated by application requirements in industry and science This book demonstrates the challenges of efficiently utilizing compute resources at peak performance presents modern techniques for tackling these challenges while increasing accessibility for professionals who are not necessarily parallel programming experts The CUDA programming model and tools empower developers to write high performance applications on a scalable parallel computing platform the GPU However CUDA itself can be difficult to learn without extensive programming experience Recognized CUDA authorities John Cheng Max Grossman and Ty McKercher guide readers through essential GPU programming skills and best practices in Professional CUDA C Programming including CUDA Programming Model GPU Execution Model GPU Memory model Streams Event and Concurrency Multi GPU Programming CUDA Domain Specific Libraries Profiling and Performance Tuning The book makes complex CUDA concepts easy to understand for anyone with knowledge of basic software development with exercises designed to be both readable and high performance For the professional seeking entrance to parallel computing and the high performance computing community Professional CUDA C Programming is an invaluable resource with the most current information available on the market

OpenGL Insights Patrick Cozzi, Christophe Riccio, 2012-07-23 Get Real World Insight from Experienced Professionals in the OpenGL Community With OpenGL OpenGL ES and WebGL real time rendering is becoming available everywhere from AAA games to mobile phones to web pages Assembling contributions from experienced developers vendors researchers and educators OpenGL Insights presents real world techniques for intermediate and advanced OpenGL OpenGL ES and WebGL developers Go Beyond the Basics The book thoroughly covers a range of topics including OpenGL 4.2 and recent extensions It explains how to optimize for mobile devices explores the design of WebGL libraries and discusses OpenGL in the classroom The contributors also examine asynchronous buffer and texture transfers performance state tracking and programmable vertex pulling Sharpen Your Skills Focusing on current and emerging techniques for the OpenGL family of APIs this book demonstrates the breadth and depth of OpenGL Readers will gain practical skills to solve problems related to performance rendering profiling framework design and more

Imaging Cell Signaling Christoph Wuelting, Robert F. Murphy, 2024-05-06 This volume explores recent innovations across the entire pipeline of imaging signal transduction cell preparation cellular manipulation image acquisition and computational analysis The chapters in this book cover topics such as rapid preparation of living Drosophila pupal macrophages for ex vivo imaging controlling the potency of T cell activation using an optically tuneable chimeric antigen receptor in situ imaging of proteins using DNA PAINT super resolution microscopy reconstructing signaling networks using biosensor barcoding and

morphological spatial and dynamic models for cellular components Written in the highly successful Methods in Molecular Biology series format chapters include introductions to their respective topics lists of the necessary materials and reagents step by step readily reproducible laboratory protocols and tips on troubleshooting and avoiding known pitfalls Cutting edge and authoritative Imaging Cell Signaling is a valuable resource that provides guidance to researchers looking to learn how to effectively tailor design projects to image manipulate and model signal transduction

Deep Learning on Embedded Systems Tariq M. Arif,2025-04-29 Comprehensive accessible introduction to deep learning for engineering tasks through Python programming low cost hardware and freely available software Deep Learning On Embedded Systems is a comprehensive guide to the practical implementation of deep learning for engineering tasks through computers and embedded hardware such as Raspberry Pi and Nvidia Jetson Nano After an introduction to the field the book provides fundamental knowledge on deep learning convolutional and recurrent neural networks computer vision and basics of Linux terminal and docker engines This book shows detailed setup steps of Jetson Nano and Raspberry Pi for utilizing essential frameworks such as PyTorch and OpenCV GPU configuration and dependency installation procedure for using PyTorch is also discussed allowing newcomers to seamlessly navigate the learning curve A key challenge of utilizing deep learning on embedded systems is managing limited GPU and memory resources This book outlines a strategy of training complex models on a desktop computer and transferring them to embedded systems for inference Also students and researchers often face difficulties with the varying probabilistic theories and notations found in data science literature To simplify this the book mainly focuses on the practical implementation part of deep learning using Python programming low cost hardware and freely available software such as Anaconda and Visual Studio Code To aid in reader learning questions and answers are included at the end of most chapters Written by a highly qualified author Deep Learning On Embedded Systems includes discussion on Fundamentals of deep learning including neurons and layers activation functions network architectures hyperparameter tuning and convolutional and recurrent neural networks CNNs RNNs PyTorch OpenCV and other essential framework setups for deep transfer learning along with Linux terminal operations docker engine docker images and virtual environments in embedded devices Training models for image classification and object detection with classification then converting trained PyTorch models to ONNX format for efficient deployment on Jetson Nano and Raspberry Pi Deep Learning On Embedded Systems serves as an excellent introduction to the field for undergraduate engineering students seeking to learn deep learning implementations for their senior capstone or class projects and graduate researchers and educators who wish to implement deep learning in their research

The PC and Gadget Help Desk Mark Edward Soper,2014-08-27 Annotation Everyone uses consumer technology and everyone has problems with it Don t get frustrated and don t waste time or money on tech support calls Solve the problem yourself with the one book that makes it easy The PC and Gadget Help Desk

Optical Imaging for Biomedical and Clinical Applications Ahmad Fadzil Mohamad Hani,Dileep Kumar,2017-10-30

Optical imaging is a rapidly emerging imaging technique that has been successfully translated into biomedical applications ranging from clinical diagnosis to molecular biology This book includes an introductory section to explore various optical imaging devices and their functionality and roles for biomedical applications such as dermatology and ophthalmology Recent developments as exemplified with the authors research are explored in detail In depth discussion of other disease conditions and their diagnosis with optical imaging techniques are also covered

Efficient AI Solutions: Deploying Deep Learning with ONNX and CUDA Peter Jones, 2025-01-12 Dive into the world of containers with Mastering Docker Containers From Development to Deployment your comprehensive guide to mastering Docker the revolutionary technology that has reshaped software development and deployment This expertly crafted book is designed for developers DevOps professionals and systems administrators who are familiar with the basics of Docker and looking to elevate their skills to the next level Spanning from foundational concepts to complex advanced topics this book covers the entire spectrum of Docker functionalities and best practices Explore chapters dedicated to image creation optimization networking data management security debugging monitoring and the pivotal role of Docker in Continuous Integration and Continuous Deployment CI CD processes Each chapter is meticulously structured to provide in depth knowledge practical tips and best practices ensuring you gain a comprehensive understanding of Docker s capabilities and how to leverage them in real world scenarios Whether you aim to optimize your development workflows secure your containerized applications or implement scalable CI CD pipelines this book provides the insights and guidance needed to achieve proficiency in Docker operations Empower yourself to efficiently manage and deploy containerized applications with confidence Mastering Docker Containers From Development to Deployment is the essential resource for professionals seeking to harness the full potential of Docker in modern software environments

Deep Learning for Computer Vision Rajalingappaa Shanmugamani, 2018-01-23 Learn how to model and train advanced neural networks to implement a variety of Computer Vision tasks Key Features Train different kinds of deep learning model from scratch to solve specific problems in Computer Vision Combine the power of Python Keras and TensorFlow to build deep learning models for object detection image classification similarity learning image captioning and more Includes tips on optimizing and improving the performance of your models under various constraints Book Description Deep learning has shown its power in several application areas of Artificial Intelligence especially in Computer Vision Computer Vision is the science of understanding and manipulating images and finds enormous applications in the areas of robotics automation and so on This book will also show you with practical examples how to develop Computer Vision applications by leveraging the power of deep learning In this book you will learn different techniques related to object classification object detection image segmentation captioning image generation face analysis and more You will also explore their applications using popular Python libraries such as TensorFlow and Keras This book will help you master state of the art deep learning algorithms and their implementation What you will learn Set up an environment for deep learning with

Python TensorFlow and Keras Define and train a model for image and video classification Use features from a pre trained Convolutional Neural Network model for image retrieval Understand and implement object detection using the real world Pedestrian Detection scenario Learn about various problems in image captioning and how to overcome them by training images and text together Implement similarity matching and train a model for face recognition Understand the concept of generative models and use them for image generation Deploy your deep learning models and optimize them for high performance Who this book is for This book is targeted at data scientists and Computer Vision practitioners who wish to apply the concepts of Deep Learning to overcome any problem related to Computer Vision A basic knowledge of programming in Python and some understanding of machine learning concepts is required to get the best out of this book

Python: Advanced Guide to Artificial Intelligence Giuseppe Bonaccorso, Armando Fandango, Rajalingappaa Shanmugamani, 2018-12-21 Demystify the complexity of machine learning techniques and create evolving clever solutions to solve your problems Key Features Master supervised unsupervised and semi supervised ML algorithms and their implementation Build deep learning models for object detection image classification similarity learning and more Build deploy and scale end to end deep neural network models in a production environment Book Description This Learning Path is your complete guide to quickly getting to grips with popular machine learning algorithms You ll be introduced to the most widely used algorithms in supervised unsupervised and semi supervised machine learning and learn how to use them in the best possible manner Ranging from Bayesian models to the MCMC algorithm to Hidden Markov models this Learning Path will teach you how to extract features from your dataset and perform dimensionality reduction by making use of Python based libraries You ll bring the use of TensorFlow and Keras to build deep learning models using concepts such as transfer learning generative adversarial networks and deep reinforcement learning Next you ll learn the advanced features of TensorFlow 1 x such as distributed TensorFlow with TF clusters deploy production models with TensorFlow Serving You ll implement different techniques related to object classification object detection image segmentation and more By the end of this Learning Path you ll have obtained in depth knowledge of TensorFlow making you the go to person for solving artificial intelligence problems This Learning Path includes content from the following Packt products Mastering Machine Learning Algorithms by Giuseppe Bonaccorso Mastering TensorFlow 1 x by Armando Fandango Deep Learning for Computer Vision by Rajalingappaa Shanmugamani What you will learn Explore how an ML model can be trained optimized and evaluated Work with Autoencoders and Generative Adversarial Networks Explore the most important Reinforcement Learning techniques Build end to end deep learning CNN RNN and Autoencoders models Who this book is for This Learning Path is for data scientists machine learning engineers artificial intelligence engineers who want to delve into complex machine learning algorithms calibrate models and improve the predictions of the trained model You will encounter the advanced intricacies and complex use cases of deep learning and AI A basic knowledge of programming in Python and some understanding of

machine learning concepts are required to get the best out of this Learning Path

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 FeaturesUnderstand 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 productionEvaluate the performance of your models and improve your deep learning skillsBook 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 learnSet up your deep learning environment for the Cognitive Toolkit on Windows and LinuxPre process and feed your data into neural networksUse neural networks to make efficient predictions and recommendationsTrain and deploy efficient neural networks such as CNN and RNNDetect problems in your neural network using TensorBoardIntegrate Cognitive Toolkit with Azure ML Services for effective deep learningWho 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

Neural Networks in Unity Abhishek Nandy,Manisha Biswas,2018-07-14 Learn the core concepts of neural networks and discover the different types of neural network using Unity as your platform In this book you will start by exploring back propagation and unsupervised neural networks with Unity and C You ll then move onto activation functions such as sigmoid functions step functions and so on The author also explains all the variations of neural networks such as feed forward recurrent and radial Once you ve gained the basics you ll start programming Unity with C In this section the author discusses constructing neural networks for unsupervised learning representing a neural network in terms of data structures in C and replicating a neural network in Unity as a simulation Finally you ll define back propagation with Unity C before compiling your project What You ll Learn Discover the concepts behind neural networks Work with Unity and C See the difference between fully connected and convolutional neural

networks Master neural network processing for Windows 10 UWP Who This Book Is For Gaming professionals machine learning and deep learning enthusiasts *Hands-On Artificial Intelligence for Beginners* Patrick D. Smith, 2018-10-31 Grasp the fundamentals of Artificial Intelligence and build your own intelligent systems with ease Key Features Enter the world of AI with the help of solid concepts and real world use cases Explore AI components to build real world automated intelligence Become well versed with machine learning and deep learning concepts Book Description Virtual Assistants such as Alexa and Siri process our requests Google's cars have started to read addresses and Amazon's prices and Netflix's recommended videos are decided by AI Artificial Intelligence is one of the most exciting technologies and is becoming increasingly significant in the modern world Hands On Artificial Intelligence for Beginners will teach you what Artificial Intelligence is and how to design and build intelligent applications This book will teach you to harness packages such as TensorFlow in order to create powerful AI systems You will begin with reviewing the recent changes in AI and learning how artificial neural networks ANNs have enabled more intelligent AI You'll explore feedforward recurrent convolutional and generative neural networks FFNNs RNNs CNNs and GNNs as well as reinforcement learning methods In the concluding chapters you'll learn how to implement these methods for a variety of tasks such as generating text for chatbots and playing board and video games By the end of this book you will be able to understand exactly what you need to consider when optimizing ANNs and how to deploy and maintain AI applications What you will learn Use TensorFlow packages to create AI systems Build feedforward convolutional and recurrent neural networks Implement generative models for text generation Build reinforcement learning algorithms to play games Assemble RNNs CNNs and decoders to create an intelligent assistant Utilize RNNs to predict stock market behavior Create and scale training pipelines and deployment architectures for AI systems Who this book is for This book is designed for beginners in AI aspiring AI developers as well as machine learning enthusiasts with an interest in leveraging various algorithms to build powerful AI applications [Practical Convolutional Neural Networks](#) Mohit Sewak, Md. Rezaul Karim, Pradeep Pujari, 2018-02-27 One stop guide to implementing award winning and cutting edge CNN architectures Key Features Fast paced guide with use cases and real world examples to get well versed with CNN techniques Implement CNN models on image classification transfer learning Object Detection Instance Segmentation GANs and more Implement powerful use cases like image captioning reinforcement learning for hard attention and recurrent attention models Book Description Convolutional Neural Network CNN is revolutionizing several application domains such as visual recognition systems self driving cars medical discoveries innovative eCommerce and more You will learn to create innovative solutions around image and video analytics to solve complex machine learning and computer vision related problems and implement real life CNN models This book starts with an overview of deep neural networks with the example of image classification and walks you through building your first CNN for human face detector We will learn to use concepts like transfer learning with CNN and Auto Encoders to build very powerful models even when not much of supervised training

data of labeled images is available Later we build upon the learning achieved to build advanced vision related algorithms for object detection instance segmentation generative adversarial networks image captioning attention mechanisms for vision and recurrent models for vision By the end of this book you should be ready to implement advanced effective and efficient CNN models at your professional project or personal initiatives by working on complex image and video datasets What you will learn From CNN basic building blocks to advanced concepts understand practical areas they can be applied to Build an image classifier CNN model to understand how different components interact with each other and then learn how to optimize it Learn different algorithms that can be applied to Object Detection and Instance Segmentation Learn advanced concepts like attention mechanisms for CNN to improve prediction accuracy Understand transfer learning and implement award winning CNN architectures like AlexNet VGG GoogLeNet ResNet and more Understand the working of generative adversarial networks and how it can create new unseen images Who this book is for This book is for data scientists machine learning and deep learning practitioners Cognitive and Artificial Intelligence enthusiasts who want to move one step further in building Convolutional Neural Networks Get hands on experience with extreme datasets and different CNN architectures to build efficient and smart ConvNet models Basic knowledge of deep learning concepts and Python programming language is expected

Deep Learning Essentials Anurag Bhardwaj, Wei Di, Jianing Wei, 2018-01-30 Get to grips with the essentials of deep learning by leveraging the power of Python Key Features Your one stop solution to get started with the essentials of deep learning and neural network modeling Train different kinds of neural networks to tackle various problems in Natural Language Processing computer vision speech recognition and more Covers popular Python libraries such as Tensorflow Keras and more along with tips on training deploying and optimizing your deep learning models in the best possible manner Book Description Deep Learning a trending topic in the field of Artificial Intelligence today and can be considered to be an advanced form of machine learning which is quite tricky to master This book will help you take your first steps in training efficient deep learning models and applying them in various practical scenarios You will model train and deploy different kinds of neural networks such as Convolutional Neural Network Recurrent Neural Network and will see some of their applications in real world domains including computer vision natural language processing speech recognition and so on You will build practical projects such as chatbots implement reinforcement learning to build smart games and develop expert systems for image captioning and processing Popular Python library such as TensorFlow is used in this book to build the models This book also covers solutions for different problems you might come across while training models such as noisy datasets small datasets and more This book does not assume any prior knowledge of deep learning By the end of this book you will have a firm understanding of the basics of deep learning and neural network modeling along with their practical applications What you will learn Get to grips with the core concepts of deep learning and neural networks Set up deep learning library such as TensorFlow Fine tune your deep learning models for NLP and Computer Vision applications Unify

different information sources such as images text and speech through deep learning Optimize and fine tune your deep learning models for better performance Train a deep reinforcement learning model that plays a game better than humans Learn how to make your models get the best out of your GPU or CPU Who this book is for Aspiring data scientists and machine learning experts who have limited or no exposure to deep learning will find this book to be very useful If you are looking for a resource that gets you up and running with the fundamentals of deep learning and neural networks this book is for you As the models in the book are trained using the popular Python based libraries such as Tensorflow and Keras it would be useful to have sound programming knowledge of Python

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