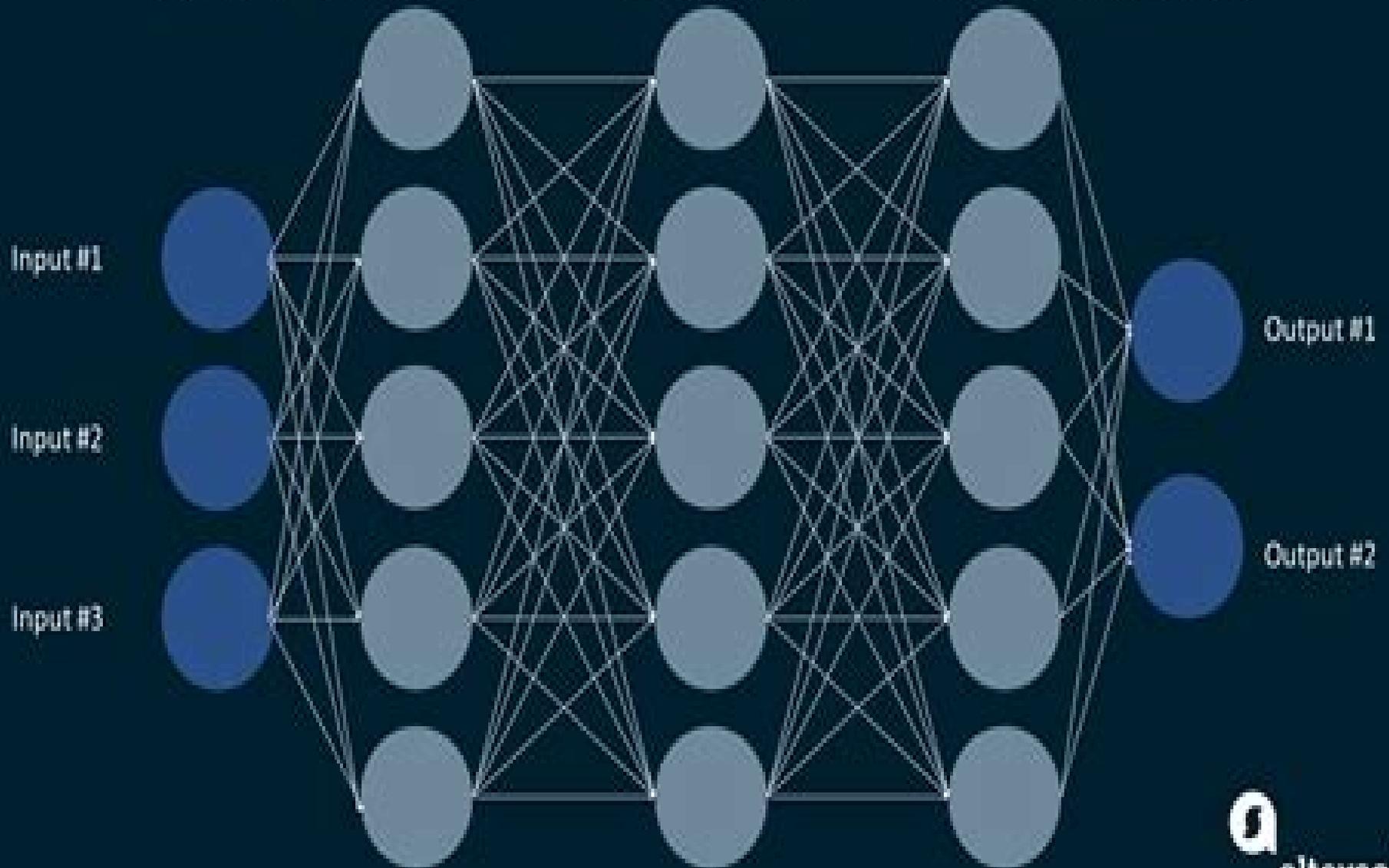# DEEP NEURAL NETWORKS ARCHITECTURE

Data loading   Hidden layer 1   Hidden layer 2   Hidden layer 3   Output layer

Input #1

Input #2

Input #3

Output #1

Output #2

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Neural Networks And Deep Learning

Russel R Russo

Neural Networks And Deep Learning:

   Neural Networks and Deep Learning Charu C. Aggarwal,2023 This book covers both classical and modern models in deep learning The chapters of this book span three categories 1 The basics of neural networks The backpropagation algorithm is discussed in Chapter 2 Many traditional machine learning models can be understood as special cases of neural networks Chapter 3 explores the connections between traditional machine learning and neural networks Support vector machines linear logistic regression singular value decomposition matrix factorization and recommender systems are shown to be special cases of neural networks 2 Fundamentals of neural networks A detailed discussion of training and regularization is provided in Chapters 4 and 5 Chapters 6 and 7 present radial basis function RBF networks and restricted Boltzmann machines 3 Advanced topics in neural networks Chapters 8 9 and 10 discuss recurrent neural networks convolutional neural networks and graph neural networks Several advanced topics like deep reinforcement learning attention mechanisms transformer networks Kohonen self organizing maps and generative adversarial networks are introduced in Chapters 11 and 12 The book is written for graduate students researchers and practitioners Where possible an application centric view is highlighted in order to provide an understanding of the practical uses of each class of techniques The second edition is substantially reorganized and expanded with separate chapters on backpropagation and graph neural networks Many chapters have been significantly revised over the first edition Greater focus is placed on modern deep learning ideas such as attention mechanisms transformers and pre trained language models   Introduction to Deep Learning and Neural Networks with PythonTM Ahmed Fawzy Gad,Fatima Ezzahra Jarmouni,2020-11-25 Introduction to Deep Learning and Neural Networks with PythonTM A Practical Guide is an intensive step by step guide for neuroscientists to fully understand practice and build neural networks Providing math and PythonTM code examples to clarify neural network calculations by book s end readers will fully understand how neural networks work starting from the simplest model Y X and building from scratch Details and explanations are provided on how a generic gradient descent algorithm works based on mathematical and PythonTM examples teaching you how to use the gradient descent algorithm to manually perform all calculations in both the forward and backward passes of training a neural network Examines the practical side of deep learning and neural networks Provides a problem based approach to building artificial neural networks using real data Describes PythonTM functions and features for neuroscientists Uses a careful tutorial approach to describe implementation of neural networks in PythonTM Features math and code examples via companion website with helpful instructions for easy implementation   *Neural Networks with R* Giuseppe Ciaburro,Balaji Venkateswaran,2017-09-27 Uncover the power of artificial neural networks by implementing them through R code About This Book Develop a strong background in neural networks with R to implement them in your applications Build smart systems using the power of deep learning Real world case studies to illustrate the power of neural network models Who This Book Is For This book is intended for anyone who has a statistical background

with knowledge in R and wants to work with neural networks to get better results from complex data If you are interested in artificial intelligence and deep learning and you want to level up then this book is what you need What You Will Learn Set up R packages for neural networks and deep learning Understand the core concepts of artificial neural networks Understand neurons perceptrons bias weights and activation functions Implement supervised and unsupervised machine learning in R for neural networks Predict and classify data automatically using neural networks Evaluate and fine tune the models you build In Detail Neural networks are one of the most fascinating machine learning models for solving complex computational problems efficiently Neural networks are used to solve wide range of problems in different areas of AI and machine learning This book explains the niche aspects of neural networking and provides you with foundation to get started with advanced topics The book begins with neural network design using the neural net package then you ll build a solid foundation knowledge of how a neural network learns from data and the principles behind it This book covers various types of neural network including recurrent neural networks and convoluted neural networks You will not only learn how to train neural networks but will also explore generalization of these networks Later we will delve into combining different neural network models and work with the real world use cases By the end of this book you will learn to implement neural network models in your applications with the help of practical examples in the book Style and approach A step by step guide filled with real world practical examples

Hands-On Neural Networks Leonardo De Marchi,Laura Mitchell,2019-05-30 Design and create neural networks with deep learning and artificial intelligence principles using OpenAI Gym TensorFlow and Keras Key FeaturesExplore neural network architecture and understand how it functionsLearn algorithms to solve common problems using back propagation and perceptronsUnderstand how to apply neural networks to applications with the help of useful illustrationsBook Description Neural networks play a very important role in deep learning and artificial intelligence AI with applications in a wide variety of domains right from medical diagnosis to financial forecasting and even machine diagnostics Hands On Neural Networks is designed to guide you through learning about neural networks in a practical way The book will get you started by giving you a brief introduction to perceptron networks You will then gain insights into machine learning and also understand what the future of AI could look like Next you will study how embeddings can be used to process textual data and the role of long short term memory networks LSTMs in helping you solve common natural language processing NLP problems The later chapters will demonstrate how you can implement advanced concepts including transfer learning generative adversarial networks GANs autoencoders and reinforcement learning Finally you can look forward to further content on the latest advancements in the field of neural networks By the end of this book you will have the skills you need to build train and optimize your own neural network model that can be used to provide predictable solutions What you will learnLearn how to train a network by using backpropagationDiscover how to load and transform images for use in neural networksStudy how neural networks can be applied to a varied set of applicationsSolve common challenges faced in neural

network developmentUnderstand the transfer learning concept to solve tasks using Keras and Visual Geometry Group VGG networkGet up to speed with advanced and complex deep learning concepts like LSTMs and NLP Explore innovative algorithms like GANs and deep reinforcement learningWho this book is for If you are interested in artificial intelligence and deep learning and want to further your skills then this intermediate level book is for you Some knowledge of statistics will help you get the most out of this book   *Deep Neural Networks in a Mathematical Framework* Anthony L. Caterini,Dong Eui Chang,2018-03-22 This SpringerBrief describes how to build a rigorous end to end mathematical framework for deep neural networks The authors provide tools to represent and describe neural networks casting previous results in the field in a more natural light In particular the authors derive gradient descent algorithms in a unified way for several neural network structures including multilayer perceptrons convolutional neural networks deep autoencoders and recurrent neural networks Furthermore the authors developed framework is both more concise and mathematically intuitive than previous representations of neural networks This SpringerBrief is one step towards unlocking the black box of Deep Learning The authors believe that this framework will help catalyze further discoveries regarding the mathematical properties of neural networks This SpringerBrief is accessible not only to researchers professionals and students working and studying in the field of deep learning but also to those outside of the neutral network community   Deep Learning with PyTorch Vishnu Subramanian,2018-02-23 Build neural network models in text vision and advanced analytics using PyTorch Key Features Learn PyTorch for implementing cutting edge deep learning algorithms Train your neural networks for higher speed and flexibility and learn how to implement them in various scenarios Cover various advanced neural network architecture such as ResNet Inception DenseNet and more with practical examples Book Description Deep learning powers the most intelligent systems in the world such as Google Voice Siri and Alexa Advancements in powerful hardware such as GPUs software frameworks such as PyTorch Keras Tensorflow and CNTK along with the availability of big data have made it easier to implement solutions to problems in the areas of text vision and advanced analytics This book will get you up and running with one of the most cutting edge deep learning libraries PyTorch PyTorch is grabbing the attention of deep learning researchers and data science professionals due to its accessibility efficiency and being more native to Python way of development You ll start off by installing PyTorch then quickly move on to learn various fundamental blocks that power modern deep learning You will also learn how to use CNN RNN LSTM and other networks to solve real world problems This book explains the concepts of various state of the art deep learning architectures such as ResNet DenseNet Inception and Seq2Seq without diving deep into the math behind them You will also learn about GPU computing during the course of the book You will see how to train a model with PyTorch and dive into complex neural networks such as generative networks for producing text and images By the end of the book you ll be able to implement deep learning applications in PyTorch with ease What you will learn Use PyTorch for GPU accelerated tensor computations Build custom datasets and data loaders for images and test the

models using torchvision and torchtext Build an image classifier by implementing CNN architectures using PyTorch Build systems that do text classification and language modeling using RNN LSTM and GRU Learn advanced CNN architectures such as ResNet Inception Densenet and learn how to use them for transfer learning Learn how to mix multiple models for a powerful ensemble model Generate new images using GAN s and generate artistic images using style transfer Who this book is for This book is for machine learning engineers data analysts data scientists interested in deep learning and are looking to explore implementing advanced algorithms in PyTorch Some knowledge of machine learning is helpful but not a mandatory need Working knowledge of Python programming is expected   Neural Networks Quinn Spencer,2018-06-23 Would you achieve more if you could envision your success A neural network is a computing t m made u f a numb r of im l highl int r nn t d r ing elements which r inf rm ti n b th ir d n mi t t response to xt rn l inputs All of this sounds fancy but what does it mean for computer intelligence or for the future In this book you will find answers to many practical and theoretical questions related to neural networks from insights about nodes and hidden layers to error spaces network analyses and computing influences Topics will be discussed such as What the definition of neural networks encompasses and what all the elements pertaining to them mean The main advantages of neural networks and how to leverage and apply them Limitations to neural networks How neural networks differ from conventional computing systems Neural Network applications for medical diagnostics smart computers artificial intelligence and forex or stock trading Troubleshooting tips for when neural networks stop functioning If you are even in the least interested in computer technology artificial intelligence or what the technological future will bring you need to read this book and get a better understanding of neural networks and their many applications This book will bring you to the core of how they function and what you can do with them Add this book to your cart

   Principles Of Artificial Neural Networks: Basic Designs To Deep Learning (4th Edition) Daniel Graupe,2019-03-15 The field of Artificial Neural Networks is the fastest growing field in Information Technology and specifically in Artificial Intelligence and Machine Learning This must have compendium presents the theory and case studies of artificial neural networks The volume with 4 new chapters updates the earlier edition by highlighting recent developments in Deep Learning Neural Networks which are the recent leading approaches to neural networks Uniquely the book also includes case studies of applications of neural networks demonstrating how such case studies are designed executed and how their results are obtained The title is written for a one semester graduate or senior level undergraduate course on artificial neural networks It is also intended to be a self study and a reference text for scientists engineers and for researchers in medicine finance and data mining   *Math for Deep Learning* Ronald T. Kneusel,2021-11-23 Math for Deep Learning provides the essential math you need to understand deep learning discussions explore more complex implementations and better use the deep learning toolkits With Math for Deep Learning you ll learn the essential mathematics used by and as a background for deep learning You ll work through Python examples to learn key deep learning related topics in probability statistics linear algebra

differential calculus and matrix calculus as well as how to implement data flow in a neural network backpropagation and gradient descent You ll also use Python to work through the mathematics that underlies those algorithms and even build a fully functional neural network In addition you ll find coverage of gradient descent including variations commonly used by the deep learning community SGD Adam RMSprop and Adagrad Adadelta   **Hands-On Deep Learning for Games** Micheal Lanham,2019-03-30 Understand the core concepts of deep learning and deep reinforcement learning by applying them to develop games Key FeaturesApply the power of deep learning to complex reasoning tasks by building a Game AIExploit the most recent developments in machine learning and AI for building smart gamesImplement deep learning models and neural networks with PythonBook Description The number of applications of deep learning and neural networks has multiplied in the last couple of years Neural nets has enabled significant breakthroughs in everything from computer vision voice generation voice recognition and self driving cars Game development is also a key area where these techniques are being applied This book will give an in depth view of the potential of deep learning and neural networks in game development We will take a look at the foundations of multi layer perceptron s to using convolutional and recurrent networks In applications from GANs that create music or textures to self driving cars and chatbots Then we introduce deep reinforcement learning through the multi armed bandit problem and other OpenAI Gym environments As we progress through the book we will gain insights about DRL techniques such as Motivated Reinforcement Learning with Curiosity and Curriculum Learning We also take a closer look at deep reinforcement learning and in particular the Unity ML Agents toolkit By the end of the book we will look at how to apply DRL and the ML Agents toolkit to enhance test and automate your games or simulations Finally we will cover your possible next steps and possible areas for future learning What you will learnLearn the foundations of neural networks and deep learning Use advanced neural network architectures in applications to create music textures self driving cars and chatbots Understand the basics of reinforcement and DRL and how to apply it to solve a variety of problems Working with Unity ML Agents toolkit and how to install setup and run the kit Understand core concepts of DRL and the differences between discrete and continuous action environments Use several advanced forms of learning in various scenarios from developing agents to testing games Who this book is for This books is for game developers who wish to create highly interactive games by leveraging the power of machine and deep learning No prior knowledge of machine learning deep learning or neural networks is required this book will teach those concepts from scratch A good understanding of Python is required   **Neural Networks for Beginners** Russel R Russo,2019-11-06 Do you want to understand Neural Networks and learn everything about them but it looks like it is an exclusive club Are you fascinated by Artificial Intelligence but you think that it would be too difficult for you to learn If you think that Neural Networks and Artificial Intelligence are the present and even more the future of technology and you want to be part of it well you are in the right place and you are looking at the right book If you are reading these lines you have probably already noticed this Artificial Intelligence is all

around you Your smartphone that suggests you the next word you want to type your Netflix account that recommends you the series you may like or Spotify s personalised playlists This is how machines are learning from you in everyday life And these examples are only the surface of this technological revolution Either if you want to start your own AI entreprise to empower your business or to work in the greatest and most innovative companies Artificial Intelligence is the future and Neural Networks programming is the skill you want to have The good news is that there is no exclusive club you can easily if you commit of course learn how to program and use neural networks and to do that Neural Networks for Beginners is the perfect way In this book you will learn The types and components of neural networks The smartest way to approach neural network programming Why Algorithms are your friends The three Vs of Big Data plus two new Vs How machine learning will help you making predictions The three most common problems with Neural Networks and how to overcome them Even if you don t know anything about programming Neural Networks is the perfect place to start now Still if you already know about programming but not about how to do it in Artificial Intelligence neural networks are the next thing you want to learn And Neural Networks for Beginners is the best way to do it Download Neural Network for Beginners now to get the best start for your journey to Artificial Intelligence Scroll to the top of the page and click the BUY NOW button **Neural Networks with Keras Cookbook** V Kishore Ayyadevara,2019-02-28 Implement neural network architectures by building them from scratch for multiple real world applications Key FeaturesFrom scratch build multiple neural network architectures such as CNN RNN LSTM in KerasDiscover tips and tricks for designing a robust neural network to solve real world problemsGraduate from understanding the working details of neural networks and master the art of fine tuning themBook Description This book will take you from the basics of neural networks to advanced implementations of architectures using a recipe based approach We will learn about how neural networks work and the impact of various hyper parameters on a network s accuracy along with leveraging neural networks for structured and unstructured data Later we will learn how to classify and detect objects in images We will also learn to use transfer learning for multiple applications including a self driving car using Convolutional Neural Networks We will generate images while leveraging GANs and also by performing image encoding Additionally we will perform text analysis using word vector based techniques Later we will use Recurrent Neural Networks and LSTM to implement chatbot and Machine Translation systems Finally you will learn about transcribing images audio and generating captions and also use Deep Q learning to build an agent that plays Space Invaders game By the end of this book you will have developed the skills to choose and customize multiple neural network architectures for various deep learning problems you might encounter What you will learnBuild multiple advanced neural network architectures from scratchExplore transfer learning to perform object detection and classificationBuild self driving car applications using instance and semantic segmentationUnderstand data encoding for image text and recommender systemsImplement text analysis using sequence to sequence learningLeverage a combination of CNN and RNN to perform end to end learningBuild agents to play games using

deep Q learningWho this book is for This intermediate level book targets beginners and intermediate level machine learning practitioners and data scientists who have just started their journey with neural networks This book is for those who are looking for resources to help them navigate through the various neural network architectures you ll build multiple architectures with concomitant case studies ordered by the complexity of the problem A basic understanding of Python programming and a familiarity with basic machine learning are all you need to get started with this book   **Introduction to Deep Learning and Neural Networks with PythonT** Ahmed Fawzy Gad,Fatima Ezzahra Jarmouni,2020-11-26 Introduction to Deep Learning and Neural Networks with PythonT A Practical Guide is an intensive step by step guide for neuroscientists to fully understand practice and build neural networks Providing math and PythonT code examples to clarify neural network calculations by book s end readers will fully understand how neural networks work starting from the simplest model Y X and building from scratch Details and explanations are provided on how a generic gradient descent algorithm works based on mathematical and PythonT examples teaching you how to use the gradient descent algorithm to manually perform all calculations in both the forward and backward passes of training a neural network   **Machine Intelligence** Suresh Samudrala,2019-01-11 Artificial intelligence and machine learning are considered as hot technologies of this century As these technologies move from research labs to enterprise data centers the need for skilled professionals is continuously on the rise This book is intended for IT and business professionals looking to gain proficiency in these technologies but are turned off by the complex mathematical equations This book is also useful for students in the area of artificial intelligence and machine learning to gain a conceptual understanding of the algorithms and get an industry perspective This book is an ideal place to start your journey as Core concepts of machine learning algorithms are explained in plain English using illustrations data tables and examples Intuitive meaning of the mathematics behind popular machine learning algorithms explained Covers classical machine learning neural networks and deep learning algorithms At a time when the IT industry is focusing on reskilling its vast human resources Machine intelligence is a very timely publication It has a simple approach that builds up from basics which would help software engineers and students looking to learn about the field as well as those who might have started off without the benefit of a structured introduction or sound basics Highly recommended Siddhartha S Founder and CEO of Intain Financial technology startup Suresh has written a very accessible book for practitioners The book has depth yet avoids excessive mathematics The coverage of the subject is very good and has most of the concepts required for understanding machine learning if someone is looking for depth For senior management it will provide a good overview It is well written I highly recommend it Whee Teck ONG CEO of Trusted Source and VP of Singapore Computer Society   **Advanced Deep Learning with R** Bharatendra Rai,2019-12-17 Discover best practices for choosing building training and improving deep learning models using Keras R and TensorFlow R libraries Key FeaturesImplement deep learning algorithms to build AI models with the help of tips and tricksUnderstand how deep learning models operate using expert

techniquesApply reinforcement learning computer vision GANs and NLP using a range of datasetsBook Description Deep learning is a branch of machine learning based on a set of algorithms that attempt to model high level abstractions in data Advanced Deep Learning with R will help you understand popular deep learning architectures and their variants in R along with providing real life examples for them This deep learning book starts by covering the essential deep learning techniques and concepts for prediction and classification You will learn about neural networks deep learning architectures and the fundamentals for implementing deep learning with R The book will also take you through using important deep learning libraries such as Keras R and TensorFlow R to implement deep learning algorithms within applications You will get up to speed with artificial neural networks recurrent neural networks convolutional neural networks long short term memory networks and more using advanced examples Later you ll discover how to apply generative adversarial networks GANs to generate new images autoencoder neural networks for image dimension reduction image de noising and image correction and transfer learning to prepare define train and model a deep neural network By the end of this book you will be ready to implement your knowledge and newly acquired skills for applying deep learning algorithms in R through real world examples What you will learnLearn how to create binary and multi class deep neural network modelsImplement GANs for generating new imagesCreate autoencoder neural networks for image dimension reduction image de noising and image correctionImplement deep neural networks for performing efficient text classificationLearn to define a recurrent convolutional network model for classification in KerasExplore best practices and tips for performance optimization of various deep learning modelsWho this book is for This book is for data scientists machine learning practitioners deep learning researchers and AI enthusiasts who want to develop their skills and knowledge to implement deep learning techniques and algorithms using the power of R A solid understanding of machine learning and working knowledge of the R programming language are required *Applied Deep Learning* Umberto Michelucci,2018-09-07 Work with advanced topics in deep learning such as optimization algorithms hyper parameter tuning dropout and error analysis as well as strategies to address typical problems encountered when training deep neural networks You ll begin by studying the activation functions mostly with a single neuron ReLu sigmoid and Swish seeing how to perform linear and logistic regression using TensorFlow and choosing the right cost function The next section talks about more complicated neural network architectures with several layers and neurons and explores the problem of random initialization of weights An entire chapter is dedicated to a complete overview of neural network error analysis giving examples of solving problems originating from variance bias overfitting and datasets coming from different distributions Applied Deep Learning also discusses how to implement logistic regression completely from scratch without using any Python library except NumPy to let you appreciate how libraries such as TensorFlow allow quick and efficient experiments Case studies for each method are included to put into practice all theoretical information You ll discover tips and tricks for writing optimized Python code for example vectorizing loops with

NumPy What You Will Learn Implement advanced techniques in the right way in Python and TensorFlow Debug and optimize advanced methods such as dropout and regularization Carry out error analysis to realize if one has a bias problem a variance problem a data offset problem and so on Set up a machine learning project focused on deep learning on a complex dataset Who This Book Is For Readers with a medium understanding of machine learning linear algebra calculus and basic Python programming *Deep Learning* Siddhartha Bhattacharyya,Vaclav Snasel,Aboul Ella Hassanien,Satadal Saha,B. K. Tripathy,2020-06-22 This book focuses on the fundamentals of deep learning along with reporting on the current state of art research on deep learning In addition it provides an insight of deep neural networks in action with illustrative coding examples Deep learning is a new area of machine learning research which has been introduced with the objective of moving ML closer to one of its original goals i e artificial intelligence Deep learning was developed as an ML approach to deal with complex input output mappings While traditional methods successfully solve problems where final value is a simple function of input data deep learning techniques are able to capture composite relations between non immediately related fields for example between air pressure recordings and English words millions of pixels and textual description brand related news and future stock prices and almost all real world problems Deep learning is a class of nature inspired machine learning algorithms that uses a cascade of multiple layers of nonlinear processing units for feature extraction and transformation Each successive layer uses the output from the previous layer as input The learning may be supervised e g classification and or unsupervised e g pattern analysis manners These algorithms learn multiple levels of representations that correspond to different levels of abstraction by resorting to some form of gradient descent for training via backpropagation Layers that have been used in deep learning include hidden layers of an artificial neural network and sets of propositional formulas They may also include latent variables organized layer wise in deep generative models such as the nodes in deep belief networks and deep boltzmann machines Deep learning is part of state of the art systems in various disciplines particularly computer vision automatic speech recognition ASR and human action recognition *Applied Deep Learning with Pytorch* Hyatt Saleh,2019-04-26 Implement techniques such as image classification and natural language processing NLP by understanding the different neural network architectures Key Features Understand deep learning and how it can solve complex real world problems Apply deep learning for image classification and text processing using neural networks Develop deep learning solutions for tasks such as basic classification and solving style transfer problems Book Description Machine learning is rapidly becoming the most preferred way of solving data problems thanks to the huge variety of mathematical algorithms that find patterns which are otherwise invisible to us Applied Deep Learning with PyTorch takes your understanding of deep learning its algorithms and its applications to a higher level The book begins by helping you browse through the basics of deep learning and PyTorch Once you are well versed with the PyTorch syntax and capable of building a single layer neural network you will gradually learn to tackle more complex data problems by configuring and training a convolutional neural

network CNN to perform image classification As you progress through the chapters you ll discover how you can solve an NLP problem by implementing a recurrent neural network RNN By the end of this book you ll be able to apply the skills and confidence you ve gathered along your learning process to use PyTorch for building deep learning solutions that can solve your business data problems What you will learn Detect a variety of data problems to which you can apply deep learning solutions Learn the PyTorch syntax and build a single layer neural network with it Build a deep neural network to solve a classification problem Develop a style transfer model Implement data augmentation and retrain your model Build a system for text processing using a recurrent neural network Who this book is for Applied Deep Learning with PyTorch is designed for data scientists data analysts and developers who want to work with data using deep learning techniques Anyone looking to explore and implement advanced algorithms with PyTorch will also find this book useful Some working knowledge of Python and familiarity with the basics of machine learning are a must However knowledge of NumPy and pandas will be beneficial but not essential   *Deep Learning and Artificial Intelligence: A Beginners' Guide to Neural Networks and Deep Learning* John Slavio,2019-07-24 Welcome to this book on Deep Learning and Neural Networks We re going to be diving into what neural networks are what the current neural networks out there do with an API Once we go over how everything works and how each of these new technologies work we will go over the many different applications in general life and business There have been a lot of news stories about how there are going to be self driving cars machines that make their own products and many other different applications of neural networks that make it sound like a vastly complicated machine However the tool of the neural network is a very simple tool When you hear about the applications that are being created that utilize neural networks you are actually hearing about the amount of work that went behind making a neural network do something that s complicated but not a complicated neural network Neural networks are extremely easy to understand as you will find throughout this book but the problem is that people have made them look complicated Therefore let s go ahead and demystify this subject so that you can get into the field of neural networks yourself and have some fun Here s What s Included In This Book What are Neural Networks Biological Neural Networks Artificial Neural Networks Keras Model and Layers Different Deep Learning Algorithms Benefits of Neural Networks Business Applications of Neural Networks   Deep Learning Neural Networks: Design And Case Studies Daniel Graupe,2016-07-07 Deep Learning Neural Networks is the fastest growing field in machine learning It serves as a powerful computational tool for solving prediction decision diagnosis detection and decision problems based on a well defined computational architecture It has been successfully applied to a broad field of applications ranging from computer security speech recognition image and video recognition to industrial fault detection medical diagnostics and finance This comprehensive textbook is the first in the new emerging field Numerous case studies are succinctly demonstrated in the text It is intended for use as a one semester graduate level university text and as a textbook for research and development establishments in industry medicine and financial research

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