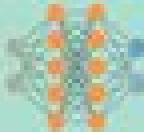


# Artificial Intelligence

## Machine Learning

### Deep Learning

Deep Neural Network



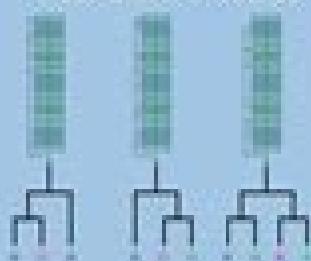
Convolutional Neural Network



Boosted Regression Tree



Random Forest



# Deep Learning Deep Learning

**Pat Nakamoto**

## Deep Learning Deep Learning:

**Deep Learning and Neural Networks: Concepts, Methodologies, Tools, and Applications** Management Association, Information Resources, 2019-10-11 Due to the growing use of web applications and communication devices the use of data has increased throughout various industries It is necessary to develop new techniques for managing data in order to ensure adequate usage Deep learning a subset of artificial intelligence and machine learning has been recognized in various real world applications such as computer vision image processing and pattern recognition The deep learning approach has opened new opportunities that can make such real life applications and tasks easier and more efficient Deep Learning and Neural Networks Concepts Methodologies Tools and Applications is a vital reference source that trends in data analytics and potential technologies that will facilitate insight in various domains of science industry business and consumer applications It also explores the latest concepts algorithms and techniques of deep learning and data mining and analysis Highlighting a range of topics such as natural language processing predictive analytics and deep neural networks this multi volume book is ideally designed for computer engineers software developers IT professionals academicians researchers and upper level students seeking current research on the latest trends in the field of deep learning     **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 GANs 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 **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 **Learning Deep Learning** Magnus Ekman, 2021-07-19 NVIDIA's Full Color Guide to Deep Learning All You Need to Get Started and Get Results To enable everyone to be part of this historic revolution requires the democratization of AI knowledge and resources This book is timely and relevant towards accomplishing these lofty goals From the foreword by Dr Anima Anandkumar Bren Professor Caltech and Director of ML Research NVIDIA Ekman uses a learning technique that in our experience has proven pivotal to success asking the reader to think about using DL techniques in practice His straightforward approach is refreshing and he permits the reader to dream just a bit about where DL may yet take us From the foreword by Dr Craig Clawson Director NVIDIA Deep Learning Institute Deep learning DL is a key component of today's exciting advances in machine learning and artificial intelligence Learning Deep Learning is a complete

guide to DL Illuminating both the core concepts and the hands on programming techniques needed to succeed this book is ideal for developers data scientists analysts and others including those with no prior machine learning or statistics experience After introducing the essential building blocks of deep neural networks such as artificial neurons and fully connected convolutional and recurrent layers Magnus Ekman shows how to use them to build advanced architectures including the Transformer He describes how these concepts are used to build modern networks for computer vision and natural language processing NLP including Mask R CNN GPT and BERT And he explains how a natural language translator and a system generating natural language descriptions of images Throughout Ekman provides concise well annotated code examples using TensorFlow with Keras Corresponding PyTorch examples are provided online and the book thereby covers the two dominating Python libraries for DL used in industry and academia He concludes with an introduction to neural architecture search NAS exploring important ethical issues and providing resources for further learning Explore and master core concepts perceptrons gradient based learning sigmoid neurons and back propagation See how DL frameworks make it easier to develop more complicated and useful neural networks Discover how convolutional neural networks CNNs revolutionize image classification and analysis Apply recurrent neural networks RNNs and long short term memory LSTM to text and other variable length sequences Master NLP with sequence to sequence networks and the Transformer architecture Build applications for natural language translation and image captioning NVIDIA s invention of the GPU sparked the PC gaming market The company s pioneering work in accelerated computing a supercharged form of computing at the intersection of computer graphics high performance computing and AI is reshaping trillion dollar industries such as transportation healthcare and manufacturing and fueling the growth of many others Register your book for convenient access to downloads updates and or corrections as they become available See inside book for details [Introduction to Deep Learning](#) Eugene Charniak,2019-01-29 A project based guide to the basics of deep learning This concise project driven guide to deep learning takes readers through a series of program writing tasks that introduce them to the use of deep learning in such areas of artificial intelligence as computer vision natural language processing and reinforcement learning The author a longtime artificial intelligence researcher specializing in natural language processing covers feed forward neural nets convolutional neural nets word embeddings recurrent neural nets sequence to sequence learning deep reinforcement learning unsupervised models and other fundamental concepts and techniques Students and practitioners learn the basics of deep learning by working through programs in Tensorflow an open source machine learning framework I find I learn computer science material best by sitting down and writing programs the author writes and the book reflects this approach Each chapter includes a programming project exercises and references for further reading An early chapter is devoted to Tensorflow and its interface with Python the widely used programming language Familiarity with linear algebra multivariate calculus and probability and statistics is required as is a rudimentary knowledge of programming in Python The book can be

used in both undergraduate and graduate courses practitioners will find it an essential reference **Deep Learning with TensorFlow** Giancarlo Zaccone,Md. Rezaul Karim,2018-03-30 Delve into neural networks implement deep learning algorithms and explore layers of data abstraction with the help of TensorFlow Key Features Learn how to implement advanced techniques in deep learning with Google's brainchild TensorFlow Explore deep neural networks and layers of data abstraction with the help of this comprehensive guide Gain real world contextualization through some deep learning problems concerning research and application Book Description Deep learning is a branch of machine learning algorithms based on learning multiple levels of abstraction Neural networks which are at the core of deep learning are being used in predictive analytics computer vision natural language processing time series forecasting and to perform a myriad of other complex tasks This book is conceived 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 combined with other open source Python libraries Throughout the book you'll learn how to develop deep learning applications for machine learning systems using Feedforward Neural Networks Convolutional Neural Networks Recurrent Neural Networks Autoencoders and Factorization Machines Discover how to attain deep learning programming on GPU in a distributed way You'll come away with an in-depth knowledge of machine learning techniques and the skills to apply them to real world projects What you will learn Apply deep machine intelligence and GPU computing with TensorFlow Access public datasets and use TensorFlow to load process and transform the data Discover how to use the high level TensorFlow API to build more powerful applications Use deep learning for scalable object detection and mobile computing Train machines quickly to learn from data by exploring reinforcement learning techniques Explore active areas of deep learning research and applications Who this book is for The book is for people interested in machine learning and machine intelligence A rudimentary level of programming in one language is assumed as is a basic familiarity with computer science techniques and technologies including a basic awareness of computer hardware and algorithms Some competence in mathematics is needed to the level of elementary linear algebra and calculus **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 **Inside Deep Learning** Edward Raff,2022-07-05 Journey through the theory and practice of modern deep learning and apply innovative

techniques to solve everyday data problems In Inside Deep Learning you will learn how to Implement deep learning with PyTorch Select the right deep learning components Train and evaluate a deep learning model Fine tune deep learning models to maximize performance Understand deep learning terminology Adapt existing PyTorch code to solve new problems Inside Deep Learning is an accessible guide to implementing deep learning with the PyTorch framework It demystifies complex deep learning concepts and teaches you to understand the vocabulary of deep learning so you can keep pace in a rapidly evolving field No detail is skipped you ll dive into math theory and practical applications Everything is clearly explained in plain English About the technology Deep learning doesn t have to be a black box Knowing how your models and algorithms actually work gives you greater control over your results And you don t have to be a mathematics expert or a senior data scientist to grasp what s going on inside a deep learning system This book gives you the practical insight you need to understand and explain your work with confidence About the book Inside Deep Learning illuminates the inner workings of deep learning algorithms in a way that even machine learning novices can understand You ll explore deep learning concepts and tools through plain language explanations annotated code and dozens of instantly useful PyTorch examples Each type of neural network is clearly presented without complex math and every solution in this book can run using readily available GPU hardware What s inside Select the right deep learning components Train and evaluate a deep learning model Fine tune deep learning models to maximize performance Understand deep learning terminology About the reader For Python programmers with basic machine learning skills About the author Edward Raff is a Chief Scientist at Booz Allen Hamilton and the author of the JSAT machine learning library Table of Contents PART 1 FOUNDATIONAL METHODS 1 The mechanics of learning 2 Fully connected networks 3 Convolutional neural networks 4 Recurrent neural networks 5 Modern training techniques 6 Common design building blocks PART 2 BUILDING ADVANCED NETWORKS 7 Autoencoding and self supervision 8 Object detection 9 Generative adversarial networks 10 Attention mechanisms 11 Sequence to sequence 12 Network design alternatives to RNNs 13 Transfer learning 14 Advanced building blocks

### **Deep Learning For Dummies**

John Paul Mueller,Luca Massaron,2019-04-15 Take a deep dive into deep learning Deep learning provides the means for discerning patterns in the data that drive online business and social media outlets Deep Learning for Dummies gives you the information you need to take the mystery out of the topic and all of the underlying technologies associated with it In no time you ll make sense of those increasingly confusing algorithms and find a simple and safe environment to experiment with deep learning The book develops a sense of precisely what deep learning can do at a high level and then provides examples of the major deep learning application types Includes sample code Provides real world examples within the approachable text Offers hands on activities to make learning easier Shows you how to use Deep Learning more effectively with the right tools This book is perfect for those who want to better understand the basis of the underlying technologies that we use each and every day

*Multi-faceted Deep Learning* Jenny Benois-Pineau,Akka Zemmari,2021-10-20 This book covers a large set of

methods in the field of Artificial Intelligence Deep Learning applied to real world problems The fundamentals of the Deep Learning approach and different types of Deep Neural Networks DNNs are first summarized in this book which offers a comprehensive preamble for further problem oriented chapters The most interesting and open problems of machine learning in the framework of Deep Learning are discussed in this book and solutions are proposed This book illustrates how to implement the zero shot learning with Deep Neural Network Classifiers which require a large amount of training data The lack of annotated training data naturally pushes the researchers to implement low supervision algorithms Metric learning is a long term research but in the framework of Deep Learning approaches it gets freshness and originality Fine grained classification with a low inter class variability is a difficult problem for any classification tasks This book presents how it is solved by using different modalities and attention mechanisms in 3D convolutional networks Researchers focused on Machine Learning Deep learning Multimedia and Computer Vision will want to buy this book Advanced level students studying computer science within these topic areas will also find this book useful [Deep Learning](#) Andrew Glassner,2021-06-22 A richly illustrated full color introduction to deep learning that offers visual and conceptual explanations instead of equations You'll learn how to use key deep learning algorithms without the need for complex math Ever since computers began beating us at chess they've been getting better at a wide range of human activities from writing songs and generating news articles to helping doctors provide healthcare Deep learning is the source of many of these breakthroughs and its remarkable ability to find patterns hiding in data has made it the fastest growing field in artificial intelligence AI Digital assistants on our phones use deep learning to understand and respond intelligently to voice commands automotive systems use it to safely navigate road hazards online platforms use it to deliver personalized suggestions for movies and books the possibilities are endless Deep Learning A Visual Approach is for anyone who wants to understand this fascinating field in depth but without any of the advanced math and programming usually required to grasp its internals If you want to know how these tools work and use them yourself the answers are all within these pages And if you're ready to write your own programs there are also plenty of supplemental Python notebooks in the accompanying Github repository to get you going The book's conversational style extensive color illustrations illuminating analogies and real world examples expertly explain the key concepts in deep learning including How text generators create novel stories and articles How deep learning systems learn to play and win at human games How image classification systems identify objects or people in a photo How to think about probabilities in a way that's useful to everyday life How to use the machine learning techniques that form the core of modern AI Intellectual adventurers of all kinds can use the powerful ideas covered in Deep Learning A Visual Approach to build intelligent systems that help us better understand the world and everyone who lives in it It's the future of AI and this book allows you to fully envision it Full Color Illustrations [Introduction to Deep Learning and Neural Networks with Python](#)TM 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

## Deep

**Learning for Beginners** François Duval, 2018-01-13 Buy now Will soon return to 38 99 Special Offer Below 1 Kindle Store Bestseller in Computer Modelling Free Kindle eBook for customers who purchase the print book from Amazon Are you thinking of learning more about Deep Learning If you are looking for a book to help you understand concepts and algorithms of deep learning then this is a good book for you Several Visual Illustrations and Examples Equations are great for really understanding every last detail of an algorithm But to get a basic idea of how things work this book contains several graphs which detail each neural networks deep learning algorithms It is contains also several graphs for the practical examples This Is a Practical Guide Book This book will help you explore exactly what deep learning is and will also teach you about why it is so revolutionary and fascinating The chapters will introduce the reader to the concepts techniques and applications of deep learning algorithms with the practical case studies and walk through examples on which to practice This book takes a different approach that is based on providing simple examples of how deep learning algorithms work and building on those examples step by step to encompass the more complicated parts of the algorithms Target Users The book designed for a variety of target audiences The most suitable users would include Newbies in computer science techniques and deep learning Professionals in data science and social sciences Professors lecturers or tutors who are looking to find better ways to explain the content to their students in the simplest and easiest way Students and academicians especially those focusing on neural networks and deep learning What s inside this book Pre requisite for Deep Learning Introduction to Artificial Neural Networks The Basics of Artificial Neural Networks Deep Learning Evolution and Recurring Methods Relationship between machine learning and deep learning Multilayer Perceptron MLP Convolutional Neural Networks CNN Other Deep Learning Algorithms Deep Learning Applications Glossary of Some Useful Terms in Deep Learning Useful References Frequently Asked Questions Q Is this book for me and do I need programming experience A If you want to learn more about deep learning this book is for you Little math knowledge is required If you already have a basic notion in statistic and data science you ll be OK No coding experience is required Q Can I loan this book to friends A Yes Under Amazon s Kindle Book Lending

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*Deep Learning for Beginners* Steven Cooper, 2018-11-06 The Best Deep Learning Book for Beginners If you are looking for a complete beginners guide to learn deep learning with examples in just a few hours then you need to continue reading This book delves into the basics of deep learning for those who are enthusiasts concerning all things machine learning and artificial intelligence For those who have seen movies which show computer systems taking over the world like Terminator or benevolent systems that watch over the population i.e. Person of Interest this should be right up your alley This book will give you the basics of what deep learning entails That means frameworks used by coders and significant components and tools used in deep learning that enable facial recognition speech recognition and virtual assistance Yes deep learning provides the tools through which systems like Siri became possible Grab your copy today and learn Deep learning utilizes frameworks which allow people to develop tools which are able to offer better abstraction along with simplification of hard programming issues TensorFlow is the most popular tool and is used by corporate giants such as Airbus Twitter and even Google The book illustrates TensorFlow and Caffe2 as the prime frameworks that are used for development by Google and Facebook Facebook illustrates Caffe2 as one of the lightweight and modular deep learning frameworks though TensorFlow is the most popular one considering it has a lot of popularity and thus a big forum which allows for assistance on main problems The book considers several components and tools of deep learning such as the neural networks CNNs RNNs GANs and auto encoders These algorithms create the building blocks which propel deep learning and advance it The book also considers several applications including chatbots and virtual assistants which have become the main focus for deep learning into the future as they represent the next frontier in information gathering and connectivity The Internet of Things is also represented here as deep learning allows for the integration of various systems via an artificial intelligence system which is already being used for the home and car functions And much more The use of data science adds a lot of value to businesses and we will continue to see the need for data scientists grow This book is probably one of the best books for beginners It's a step by step guide for any person who wants to start learning deep learning and artificial intelligence from scratch When data science can reduce spending costs by billions of dollars in the healthcare industry why wait to jump in If you want to get started on deep learning and the concepts that run artificial technologies don't wait any longer Scroll up and click the buy now button to get this book today

*Generative Deep Learning* David Foster, 2019-06-28

Generative modeling is one of the hottest topics in AI It's now possible to teach a machine to excel at human endeavors such

as painting writing and composing music With this practical book machine learning engineers and data scientists will discover how to re create some of the most impressive examples of generative deep learning models such as variational autoencoders generative adversarial networks GANs encoder decoder models and world models Author David Foster demonstrates the inner workings of each technique starting with the basics of deep learning before advancing to some of the most cutting edge algorithms in the field Through tips and tricks you ll understand how to make your models learn more efficiently and become more creative Discover how variational autoencoders can change facial expressions in photos Build practical GAN examples from scratch including CycleGAN for style transfer and MuseGAN for music generation Create recurrent generative models for text generation and learn how to improve the models using attention Understand how generative models can help agents to accomplish tasks within a reinforcement learning setting Explore the architecture of the Transformer BERT GPT 2 and image generation models such as ProGAN and StyleGAN [Neural Networks and Deep Learning](#) Charu C. Aggarwal,2018-08-25 This book covers both classical and modern models in deep learning The primary focus is on the theory and algorithms of deep learning The theory and algorithms of neural networks are particularly important for understanding important concepts so that one can understand the important design concepts of neural architectures in different applications Why do neural networks work When do they work better than off the shelf machine learning models When is depth useful Why is training neural networks so hard What are the pitfalls The book is also rich in discussing different applications in order to give the practitioner a flavor of how neural architectures are designed for different types of problems Applications associated with many different areas like recommender systems machine translation image captioning image classification reinforcement learning based gaming and text analytics are covered The chapters of this book span three categories The basics of neural networks Many traditional machine learning models can be understood as special cases of neural networks An emphasis is placed in the first two chapters on understanding the relationship 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 These methods are studied together with recent feature engineering methods like word2vec Fundamentals of neural networks A detailed discussion of training and regularization is provided in Chapters 3 and 4 Chapters 5 and 6 present radial basis function RBF networks and restricted Boltzmann machines Advanced topics in neural networks Chapters 7 and 8 discuss recurrent neural networks and convolutional neural networks Several advanced topics like deep reinforcement learning neural Turing machines Kohonen self organizing maps and generative adversarial networks are introduced in Chapters 9 and 10 The book is written for graduate students researchers and practitioners Numerous exercises are available along with a solution manual to aid in classroom teaching Where possible an application centric view is highlighted in order to provide an understanding of the practical uses of each class of techniques [\*\*Learn Keras for Deep Neural Networks\*\*](#) Jojo

Moolayil,2018-12-07 Learn understand and implement deep neural networks in a math and programming friendly approach using Keras and Python The book focuses on an end to end approach to developing supervised learning algorithms in regression and classification with practical business centric use cases implemented in Keras The overall book comprises three sections with two chapters in each section The first section prepares you with all the necessary basics to get started in deep learning Chapter 1 introduces you to the world of deep learning and its difference from machine learning the choices of frameworks for deep learning and the Keras ecosystem You will cover a real life business problem that can be solved by supervised learning algorithms with deep neural networks You'll tackle one use case for regression and another for classification leveraging popular Kaggle datasets Later you will see an interesting and challenging part of deep learning hyperparameter tuning helping you further improve your models when building robust deep learning applications Finally you'll further hone your skills in deep learning and cover areas of active development and research in deep learning At the end of Learn Keras for Deep Neural Networks you will have a thorough understanding of deep learning principles and have practical hands on experience in developing enterprise grade deep learning solutions in Keras What You'll Learn Master fast paced practical deep learning concepts with math and programming friendly abstractions Design develop train validate and deploy deep neural networks using the Keras framework Use best practices for debugging and validating deep learning models Deploy and integrate deep learning as a service into a larger software service or product Extend deep learning principles into other popular frameworks Who This Book Is For Software engineers and data engineers with basic programming skills in any language and who are keen on exploring deep learning for a career move or an enterprise project

*Deep Learning with Python, Second Edition* Francois Chollet,2021-12-07 Unlock the groundbreaking advances of deep learning with this extensively revised edition of the bestselling original Learn directly from the creator of Keras and master practical Python deep learning techniques that are easy to apply in the real world In Deep Learning with Python Second Edition you will learn Deep learning from first principles Image classification image segmentation Timeseries forecasting Text classification and machine translation Text generation neural style transfer and image generation Deep Learning with Python has taught thousands of readers how to put the full capabilities of deep learning into action This extensively revised second edition introduces deep learning using Python and Keras and is loaded with insights for both novice and experienced ML practitioners You'll learn practical techniques that are easy to apply in the real world and important theory for perfecting neural networks Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the technology Recent innovations in deep learning unlock exciting new software capabilities like automated language translation image recognition and more Deep learning is becoming essential knowledge for every software developer and modern tools like Keras and TensorFlow put it within your reach even if you have no background in mathematics or data science About the book Deep Learning with Python Second Edition introduces the field of deep learning using Python and the

powerful Keras library In this new edition Keras creator Fran ois Chollet offers insights for both novice and experienced machine learning practitioners As you move through this book you ll build your understanding through intuitive explanations crisp illustrations and clear examples You ll pick up the skills to start developing deep learning applications What s inside Deep learning from first principles Image classification and image segmentation Time series forecasting Text classification and machine translation Text generation neural style transfer and image generation About the reader For readers with intermediate Python skills No previous experience with Keras TensorFlow or machine learning is required About the author Fran ois Chollet is a software engineer at Google and creator of the Keras deep learning library Table of Contents 1 What is deep learning 2 The mathematical building blocks of neural networks 3 Introduction to Keras and TensorFlow 4 Getting started with neural networks Classification and regression 5 Fundamentals of machine learning 6 The universal workflow of machine learning 7 Working with Keras A deep dive 8 Introduction to deep learning for computer vision 9 Advanced deep learning for computer vision 10 Deep learning for timeseries 11 Deep learning for text 12 Generative deep learning 13 Best practices for the real world 14 Conclusions

*Deep Learning Illustrated* Jon Krohn,Grant Beyleveld,Aglae Bassens,2019-08-05

The authors clear visual style provides a comprehensive look at what s currently possible with artificial neural networks as well as a glimpse of the magic that s to come Tim Urban author of Wait But Why Fully Practical Insightful Guide to Modern Deep Learning Deep learning is transforming software facilitating powerful new artificial intelligence capabilities and driving unprecedented algorithm performance Deep Learning Illustrated is uniquely intuitive and offers a complete introduction to the discipline s techniques Packed with full color figures and easy to follow code it sweeps away the complexity of building deep learning models making the subject approachable and fun to learn World class instructor and practitioner Jon Krohn with visionary content from Grant Beyleveld and beautiful illustrations by Agla Bassens presents straightforward analogies to explain what deep learning is why it has become so popular and how it relates to other machine learning approaches Krohn has created a practical reference and tutorial for developers data scientists researchers analysts and students who want to start applying it He illuminates theory with hands on Python code in accompanying Jupyter notebooks To help you progress quickly he focuses on the versatile deep learning library Keras to nimbly construct efficient TensorFlow models PyTorch the leading alternative library is also covered You ll gain a pragmatic understanding of all major deep learning approaches and their uses in applications ranging from machine vision and natural language processing to image generation and game playing algorithms Discover what makes deep learning systems unique and the implications for practitioners Explore new tools that make deep learning models easier to build use and improve Master essential theory artificial neurons training optimization convolutional nets recurrent nets generative adversarial networks GANs deep reinforcement learning and more Walk through building interactive deep learning applications and move forward with your own artificial intelligence projects Register your book for convenient access to downloads updates and or corrections as they

become available See inside book for details     **Neural Networks and Deep Learning** Pat Nakamoto, 2018-01-12 Ready to crank up a neural network to get your self driving car pick up the kids from school Want to add Deep Learning to your LinkedIn profile Well hold on there Before you embark on your epic journey into the world of deep learning there is basic theory to march through first Take a step by step journey through the basics of Neural Networks and Deep Learning made so simple that even your granny could understand it What you will gain from this book A deep understanding of how a Neural Network and Deep Learning work A basics comprehension on how to build a Deep Neural Network from scratch Who this book is for Beginners who want to approach the topic but are too afraid of complex math to start What's Inside A brief introduction to Machine Learning Two main Types of Machine Learning Algorithms A practical example of Unsupervised Learning What are Neural Networks McCulloch Pitts's Neuron Types of activation function Types of network architectures Learning processes Advantages and disadvantages Let us give a memory to our Neural Network The example of book writing Software Deep learning the ability of learning to learn How does Deep Learning work Main architectures and algorithms Main types of DNN Available Frameworks and libraries Convolutional Neural Networks Tunnel Vision Convolution The right Architecture for a Neural Network Test your Neural Network A general overview of Deep Learning What are the limits of Deep Learning Deep Learning the basics Layers Learning paradigms Training Validation Main architectures and algorithms Models for Deep Learning Probabilistic graphic models Restricted Boltzmann Machines Deep Belief Networks Available Frameworks and libraries TensorFlow Hit download Now

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