



# Deep Learning in Python

Master Data Science and Machine Learning with Modern Neural Networks written in Python, Theano, and TensorFlow

By: LazyProgrammer

**Deep Learning In Python Master Data Science And  
Machine Learning With Modern Neural Networks  
Written In Python Theano And Tensorflow Machine  
Learning In Python**

**Sebastian Raschka**



## **Deep Learning In Python Master Data Science And Machine Learning With Modern Neural Networks Written In Python Theano And Tensorflow Machine Learning In Python:**

**Programming with TensorFlow** Kolla Bhanu Prakash,G. R. Kanagachidambaresan,2021-01-22 This practical book provides an end to end guide to TensorFlow the leading open source software library that helps you build and train neural networks for deep learning Natural Language Processing NLP speech recognition and general predictive analytics The book provides a hands on approach to TensorFlow fundamentals for a broad technical audience from data scientists and engineers to students and researchers The authors begin by working through some basic examples in TensorFlow before diving deeper into topics such as CNN RNN LSTM and GNN The book is written for those who want to build powerful robust and accurate predictive models with the power of TensorFlow combined with other open source Python libraries The authors demonstrate TensorFlow projects on Single Board Computers SBCs

**Learning in Python** Adam Conway,2021-11-10 Learning in Python Training Data Science and Machine Learning including Modern Neural Networks produced in Python Theano and TensorFlow Python is an interpreted high level general purpose programming language Its design philosophy emphasizes code readability with its use of significant indentation Its language constructs as well as its object oriented approach aim to help programmers write clear logical code for small and large scale projects Theano is a Python library for fast numerical computation that can be run on the CPU or GPU It is a key foundational library for Deep Learning in Python that you can use directly to create Deep Learning models or wrapper libraries that greatly simplify the process Theano is a Python library that allows us to evaluate mathematical operations including multi dimensional arrays so efficiently It is mostly used in building Deep Learning Projects It works away faster on the Graphics Processing Unit GPU rather than on the CPU Download Your Copy Now

**Python Machine Learning** Sebastian Raschka,Vahid Mirjalili,2017-09-20 Unlock modern machine learning and deep learning techniques with Python by using the latest cutting edge open source Python libraries About This Book Second edition of the bestselling book on Machine Learning A practical approach to key frameworks in data science machine learning and deep learning Use the most powerful Python libraries to implement machine learning and deep learning Get to know the best practices to improve and optimize your machine learning systems and algorithms Who This Book Is For If you know some Python and you want to use machine learning and deep learning pick up this book Whether you want to start from scratch or extend your machine learning knowledge this is an essential and unmissable resource Written for developers and data scientists who want to create practical machine learning and deep learning code this book is ideal for developers and data scientists who want to teach computers how to learn from data What You Will Learn Understand the key frameworks in data science machine learning and deep learning Harness the power of the latest Python open source libraries in machine learning Explore machine learning techniques using challenging real world data Master deep neural network implementation using the TensorFlow library Learn the mechanics of classification algorithms to implement the best tool for

the job Predict continuous target outcomes using regression analysis Uncover hidden patterns and structures in data with clustering Delve deeper into textual and social media data using sentiment analysis In Detail Machine learning is eating the software world and now deep learning is extending machine learning Understand and work at the cutting edge of machine learning neural networks and deep learning with this second edition of Sebastian Raschka s bestselling book Python Machine Learning Thoroughly updated using the latest Python open source libraries this book offers the practical knowledge and techniques you need to create and contribute to machine learning deep learning and modern data analysis Fully extended and modernized Python Machine Learning Second Edition now includes the popular TensorFlow deep learning library The scikit learn code has also been fully updated to include recent improvements and additions to this versatile machine learning library Sebastian Raschka and Vahid Mirjalili s unique insight and expertise introduce you to machine learning and deep learning algorithms from scratch and show you how to apply them to practical industry challenges using realistic and interesting examples By the end of the book you ll be ready to meet the new data analysis opportunities in today s world If you ve read the first edition of this book you ll be delighted to find a new balance of classical ideas and modern insights into machine learning Every chapter has been critically updated and there are new chapters on key technologies You ll be able to learn and work with TensorFlow more deeply than ever before and get essential coverage of the Keras neural network library along with the most recent updates to scikit learn Style and Approach Python Machine Learning Second Edition takes a practical hands on coding approach so you can learn about machine learning by coding with Python This book moves fluently between the theoretical principles of machine learning and the practical details of implementation with Python

**Deep Learning with Python** Jason Brownlee,2017      **Hands-On Deep Learning Architectures with Python** Yuxi (Hayden) Liu,Saransh Mehta,2019-04-30 Concepts tools and techniques to explore deep learning architectures and methodologies Key FeaturesExplore advanced deep learning architectures using various datasets and frameworksImplement deep architectures for neural network models such as CNN RNN GAN and many moreDiscover design patterns and different challenges for various deep learning architecturesBook Description Deep learning architectures are composed of multilevel nonlinear operations that represent high level abstractions this allows you to learn useful feature representations from the data This book will help you learn and implement deep learning architectures to resolve various deep learning research problems Hands On Deep Learning Architectures with Python explains the essential learning algorithms used for deep and shallow architectures Packed with practical implementations and ideas to help you build efficient artificial intelligence systems AI this book will help you learn how neural networks play a major role in building deep architectures You will understand various deep learning architectures such as AlexNet VGG Net GoogleNet with easy to follow code and diagrams In addition to this the book will also guide you in building and training various deep architectures such as the Boltzmann mechanism autoencoders convolutional neural networks CNNs recurrent neural networks RNNs natural language processing NLP GAN

and more all with practical implementations By the end of this book you will be able to construct deep models using popular frameworks and datasets with the required design patterns for each architecture You will be ready to explore the potential of deep architectures in today s world What you will learn Implement CNNs RNNs and other commonly used architectures with Python Explore architectures such as VGGNet AlexNet and GoogLeNet Build deep learning architectures for AI applications such as face and image recognition fraud detection and many more Understand the architectures and applications of Boltzmann machines and autoencoders with concrete examples Master artificial intelligence and neural network concepts and apply them to your architecture Understand deep learning architectures for mobile and embedded systems Who this book is for If you re a data scientist machine learning developer engineer or deep learning practitioner or are curious about AI and want to upgrade your knowledge of various deep learning architectures this book will appeal to you You are expected to have some knowledge of statistics and machine learning algorithms to get the best out of this book

*Pro Deep Learning with TensorFlow* Santanu Pattanayak, 2017-12-06 Deploy deep learning solutions in production with ease using TensorFlow You ll also develop the mathematical understanding and intuition required to invent new deep learning architectures and solutions on your own Pro Deep Learning with TensorFlow provides practical hands on expertise so you can learn deep learning from scratch and deploy meaningful deep learning solutions This book will allow you to get up to speed quickly using TensorFlow and to optimize different deep learning architectures All of the practical aspects of deep learning that are relevant in any industry are emphasized in this book You will be able to use the prototypes demonstrated to build new deep learning applications The code presented in the book is available in the form of iPython notebooks and scripts which allow you to try out examples and extend them in interesting ways You will be equipped with the mathematical foundation and scientific knowledge to pursue research in this field and give back to the community What You ll Learn Understand full stack deep learning using TensorFlow and gain a solid mathematical foundation for deep learning Deploy complex deep learning solutions in production using TensorFlow Carry out research on deep learning and perform experiments using TensorFlow Who This Book Is For Data scientists and machine learning professionals software developers graduate students and open source enthusiasts

**Python Machine Learning** Sebastian Raschka, Vahid Mirjalili, 2017 Unlock modern machine learning and deep learning techniques with Python by using the latest cutting edge open source Python libraries About This Book Second edition of the bestselling book on Machine Learning A practical approach to key frameworks in data science machine learning and deep learning Use the most powerful Python libraries to implement machine learning and deep learning Get to know the best practices to improve and optimize your machine learning systems and algorithms Who This Book Is For If you know some Python and you want to use machine learning and deep learning pick up this book Whether you want to start from scratch or extend your machine learning knowledge this is an essential and unmissable resource Written for developers and data scientists who want to create practical machine learning and deep learning code this book is ideal for developers

and data scientists who want to teach computers how to learn from data

**What You Will Learn**

- Understand the key frameworks in data science machine learning and deep learning
- Harness the power of the latest Python open source libraries in machine learning
- Explore machine learning techniques using challenging real world data
- Master deep neural network implementation using the TensorFlow library
- Learn the mechanics of classification algorithms to implement the best tool for the job
- Predict continuous target outcomes using regression analysis
- Uncover hidden patterns and structures in data with clustering
- Delve deeper into textual and social media data using sentiment analysis

**In Detail**

Machine learning is eating the software world and now deep learning is extending machine learning

Understand and work at the cutting edge of machine learning neural networks and deep learning with this second edition of Sebastian Raschka's bestselling book *Python Machine Learning*

Thoroughly updated using the latest Python open source libraries this book offers the practical knowledge and techniques you need to create and contribute to machine learning deep learning and modern data analysis

Fully extended and modernized *Python Machine Learning Second Edition* now includes the popular TensorFlow deep learning library

The scikit learn code has also been fully updated to include recent improvements and additions to this versatile machine learning library

Sebastian Raschka and Vahid Mirjalili's unique insight and expertise introduce you to machine learning and deep learning algorithms from s

[Python Machine Learning](#) Moubachir Madani Fadoul, 2020-05-31

Have you always wanted to learn deep learning but are afraid it'll be too difficult for you? This book is for you

Deep learning is a form of machine learning that enables computers to learn from experience and understand the world in terms of a hierarchy of concepts

Because the computer gathers knowledge from experience there is no need for a human computer operator to formally specify all the knowledge that the computer needs

The hierarchy of concepts allows the computer to learn complicated concepts by building them out of simpler ones

a graph of these hierarchies would be many layers deep

This book introduces a broad range of topics in deep learning

**Book Description**

*Python Machine Learning* is a comprehensive guide to machine learning and deep learning with Python

It acts as both a step by step tutorial and a reference you'll keep coming back to as you build your machine learning systems

Packed with clear explanations visualizations and working examples the book covers most of the essential machine learning techniques in depth

While some books teach you only to follow instructions with this machine learning book this tutorial book teaches the principles behind machine learning allowing you to build models and applications for yourself

Updated for TensorFlow scikit learn Keras and theano this edition introduces readers to its new Keras API features as well as the latest additions to scikit learn

It's also expanded to cover cutting edge reinforcement learning techniques based on deep learning as well as an introduction to GANs

Finally this book also explores analysis by giving some examples helping you learn how to use machine learning algorithms to classify or predict documents output

This book is your companion to machine learning with Python whether you're a Python developer new to machine learning or want to deepen your knowledge of the latest developments

**What you will learn**

- Master the frameworks models and techniques that enable

machines to learn from data Use scikit learn for machine learning and TensorFlow for deep learning Apply machine learning to classification predict customer churning and more Build and train neural networks GANs CNN and other models Discover best practices for evaluating and tuning models Predict target outcomes using optimization algorithm such as Gradient Descent algorithm analysis Overcome challenges in deep learning algorithms by using dropout regulation Who This Book Is For If you know some Python and you want to use machine learning and deep learning pick up this book Whether you want to start from scratch or extend your machine learning knowledge this is an essential resource Written for developers and data scientists who want to create practical machine learning and deep learning code this book is ideal for anyone who wants to teach computers how to learn from data Table of Contents 1 Giving Computers the Ability to Learn from Data 2 Training Simple ML Algorithms for Classification 3 ML Classifiers Using scikit learn 4 Building Good Training Datasets Data Preprocessing 5 Compressing Data via Dimensionality Reduction 6 Best Practices for Model Evaluation and Hyperparameter Tuning 7 Combining Different Models for Ensemble Learning 8 Predicting Continuous Target Variables with supervised learning 9 Implementing Multilayer Artificial Neural Networks 10 Modeling Sequential Data Using Recurrent Neural Networks 11 GANs for Synthesizing New Data and so much more In every chapter you can edit the examples online

*Python Machine Learning* Sebastian Raschka, 2015-08-24 Unlock deeper insights into Machine Learning with this vital guide to cutting edge predictive analytics About This Book Leverage Python's most powerful open source libraries for deep learning data wrangling and data visualization Learn effective strategies and best practices to improve and optimize machine learning systems and algorithms Ask and answer tough questions of your data with robust statistical models built for a range of datasets Who This Book Is For If you want to find out how to use Python to start answering critical questions of your data pick up Python Machine Learning whether you want to get started from scratch or want to extend your data science knowledge this is an essential and unmissable resource What You Will Learn Explore how to use different machine learning models to ask different questions of your data Learn how to build neural networks using Keras and Theano Find out how to write clean and elegant Python code that will optimize the strength of your algorithms Discover how to embed your machine learning model in a web application for increased accessibility Predict continuous target outcomes using regression analysis Uncover hidden patterns and structures in data with clustering Organize data using effective pre processing techniques Get to grips with sentiment analysis to delve deeper into textual and social media data In Detail Machine learning and predictive analytics are transforming the way businesses and other organizations operate Being able to understand trends and patterns in complex data is critical to success becoming one of the key strategies for unlocking growth in a challenging contemporary marketplace Python can help you deliver key insights into your data its unique capabilities as a language let you build sophisticated algorithms and statistical models that can reveal new perspectives and answer key questions that are vital for success Python Machine Learning gives you access to the world of predictive analytics and demonstrates why Python is one

of the world's leading data science languages. If you want to ask better questions of data or need to improve and extend the capabilities of your machine learning systems, this practical data science book is invaluable. Covering a wide range of powerful Python libraries including scikit-learn, Theano, and Keras, and featuring guidance and tips on everything from sentiment analysis to neural networks, you'll soon be able to answer some of the most important questions facing you and your organization.

**Style and approach** Python Machine Learning connects the fundamental theoretical principles behind machine learning to their practical application in a way that focuses you on asking and answering the right questions. It walks you through the key elements of Python and its powerful machine learning libraries while demonstrating how to get to grips with a range of statistical models.

**Deep Learning with Theano** Christopher Bourez, 2017-07-31. Develop deep neural networks in Theano with practical code examples for image classification, machine translation, reinforcement agents, or generative models.

**About This Book** Learn Theano basics and evaluate your mathematical expressions faster and in an efficient manner. Learn the design patterns of deep neural architectures to build efficient and powerful networks on your datasets. Apply your knowledge to concrete fields such as image classification, object detection, chatbots, machine translation, reinforcement agents, or generative models.

**Who This Book Is For** This book is intended to provide a full overview of deep learning. From the beginner in deep learning and artificial intelligence to the data scientist who wants to become familiar with Theano and its supporting libraries, or have an extended understanding of deep neural nets. Some basic skills in Python programming and computer science will help, as well as skills in elementary algebra and calculus.

**What You Will Learn** Get familiar with Theano and deep learning. Provide examples in supervised, unsupervised, generative, or reinforcement learning. Discover the main principles for designing efficient deep learning nets: convolutions, residual connections, and recurrent connections. Use Theano on real-world computer vision datasets such as for digit classification and image classification. Extend the use of Theano to natural language processing tasks for chatbots or machine translation. Cover artificial intelligence-driven strategies to enable a robot to solve games or learn from an environment. Generate synthetic data that looks real with generative modeling. Become familiar with Lasagne and Keras, two frameworks built on top of Theano.

**In Detail** This book offers a complete overview of Deep Learning with Theano, a Python-based library that makes optimizing numerical expressions and deep learning models easy on CPU or GPU. The book provides some practical code examples that help the beginner understand how easy it is to build complex neural networks, while more experienced data scientists will appreciate the reach of the book, addressing supervised and unsupervised learning, generative models, reinforcement learning in the fields of image recognition, natural language processing, or game strategy. The book also discusses image recognition tasks that range from simple digit recognition, image classification, object localization, image segmentation, to image captioning. Natural language processing examples include text generation, chatbots, machine translation, and question answering. The last example deals with generating random data that looks real and solving games such as in the Open AI gym.

At the end this book sums up the best performing nets for each task While early research results were based on deep stacks of neural layers in particular convolutional layers the book presents the principles that improved the efficiency of these architectures in order to help the reader build new custom nets Style and approach It is an easy to follow example book that teaches you how to perform fast efficient computations in Python Starting with the very basics NumPy installing Theano this book will take you to the smooth journey of implementing Theano for advanced computations for machine learning and deep learning

*Deep Learning with Python, Second Edition* Francois Chollet, 2016-12-07 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

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**Deep Learning with Python, Third Edition** Francois Chollet, Matthew Watson, 2025-09-30 The bestselling book on Python deep learning now covering generative AI Keras 3 PyTorch and JAX Deep Learning with Python Third Edition puts the power of deep learning in your hands This new edition includes the latest Keras and TensorFlow features generative AI models and added coverage of PyTorch and JAX Learn directly from the creator of Keras and step confidently into the world of deep learning with Python In Deep Learning with Python Third Edition you ll discover Deep learning from first principles The latest features of Keras 3 A primer on JAX PyTorch and TensorFlow Image classification and image segmentation Time series forecasting Large Language models Text classification and machine translation Text and image generation build your own GPT and diffusion models Scaling and tuning models With over 100 000 copies sold Deep Learning with Python makes it possible for developers data scientists and machine learning enthusiasts to put deep learning into action In this expanded and updated third edition Keras creator Fran ois Chollet offers insights for both novice and experienced machine learning practitioners You ll master state of the art deep learning tools and techniques from the latest features of Keras 3 to building AI models that can generate text and images About the book Deep Learning with Python Third Edition introduces deep learning from scratch Each chapter introduces practical code examples that build up your understanding of deep learning layer by layer You ll appreciate the intuitive explanations crisp color illustrations and clear examples In this expanded third edition you ll find fresh chapters on the transformers architecture building your own GPT like large language model and image generation with diffusion models Plus even DL veterans will benefit from the insightful explanations on the nature of deep learning 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 Matthew Watson is a core maintainer of the Keras deep learning library focusing primarily on tools for Natural Language Processing Get a free eBook PDF or ePub from Manning as well as access to the online liveBook format and its AI assistant that will answer your questions in any language when you purchase the print book [Python Deep Learning](#) Valentino Zocca, Gianmario Spacagna, Daniel Slater, Peter Roelants, 2017-04-28 Take your machine learning skills to the next level by mastering Deep Learning concepts and algorithms using Python About This Book Explore and create intelligent systems using cutting edge deep learning techniques Implement deep learning algorithms and work with revolutionary libraries in Python Get real world examples and easy to follow tutorials on Theano TensorFlow H2O and more Who This Book Is For This book is for Data Science practitioners as well as aspirants who have a basic foundational understanding of Machine Learning concepts and some programming experience with Python A mathematical background with a conceptual understanding of calculus and statistics is also desired What You Will Learn Get a practical deep dive into deep learning algorithms Explore deep learning further with Theano Caffe Keras and TensorFlow Learn about two of the most powerful techniques at the core of many practical deep learning implementations Auto Encoders and Restricted

Boltzmann Machines Dive into Deep Belief Nets and Deep Neural Networks Discover more deep learning algorithms with Dropout and Convolutional Neural Networks Get to know device strategies so you can use deep learning algorithms and libraries in the real world In Detail With an increasing interest in AI around the world deep learning has attracted a great deal of public attention Every day deep learning algorithms are used broadly across different industries The book will give you all the practical information available on the subject including the best practices using real world use cases You will learn to recognize and extract information to increase predictive accuracy and optimize results Starting with a quick recap of important machine learning concepts the book will delve straight into deep learning principles using Sci kit learn Moving ahead you will learn to use the latest open source libraries such as Theano Keras Google s TensorFlow and H2O Use this guide to uncover the difficulties of pattern recognition scaling data with greater accuracy and discussing deep learning algorithms and techniques Whether you want to dive deeper into Deep Learning or want to investigate how to get more out of this powerful technology you ll find everything inside Style and approach Python Machine Learning by example follows practical hands on approach It walks you through the key elements of Python and its powerful machine learning libraries with the help of real world projects

**Hands-On Transfer Learning with Python** Dipanjan Sarkar,Raghav Bali,Tamoghna Ghosh,2018-08-31 Deep learning simplified by taking supervised unsupervised and reinforcement learning to the next level using the Python ecosystem Key Features Build deep learning models with transfer learning principles in Python implement transfer learning to solve real world research problems Perform complex operations such as image captioning neural style transfer Book Description Transfer learning is a machine learning ML technique where knowledge gained during training a set of problems can be used to solve other similar problems The purpose of this book is two fold firstly we focus on detailed coverage of deep learning DL and transfer learning comparing and contrasting the two with easy to follow concepts and examples The second area of focus is real world examples and research problems using TensorFlow Keras and the Python ecosystem with hands on examples The book starts with the key essential concepts of ML and DL followed by depiction and coverage of important DL architectures such as convolutional neural networks CNNs deep neural networks DNNs recurrent neural networks RNNs long short term memory LSTM and capsule networks Our focus then shifts to transfer learning concepts such as model freezing fine tuning pre trained models including VGG inception ResNet and how these systems perform better than DL models with practical examples In the concluding chapters we will focus on a multitude of real world case studies and problems associated with areas such as computer vision audio analysis and natural language processing NLP By the end of this book you will be able to implement both DL and transfer learning principles in your own systems What you will learn Set up your own DL environment with graphics processing unit GPU and Cloud support Delve into transfer learning principles with ML and DL models Explore various DL architectures including CNN LSTM and capsule networks Learn about data and network representation and loss functions Get to grips with models and strategies in transfer learning

Walk through potential challenges in building complex transfer learning models from scratch Explore real world research problems related to computer vision and audio analysis Understand how transfer learning can be leveraged in NLP Who this book is for Hands On Transfer Learning with Python is for data scientists machine learning engineers analysts and developers with an interest in data and applying state of the art transfer learning methodologies to solve tough real world problems Basic proficiency in machine learning and Python is required

**Hands-On Deep Learning Algorithms with Python** Sudharsan Ravichandiran,2019-07-25 Understand basic to advanced deep learning algorithms the mathematical principles behind them and their practical applications Key Features Get up to speed with building your own neural networks from scratch Gain insights into the mathematical principles behind deep learning algorithms Implement popular deep learning algorithms such as CNNs RNNs and more using TensorFlow Book Description Deep learning is one of the most popular domains in the AI space allowing you to develop multi layered models of varying complexities This book introduces you to popular deep learning algorithms from basic to advanced and shows you how to implement them from scratch using TensorFlow Throughout the book you will gain insights into each algorithm the mathematical principles behind it and how to implement it in the best possible manner The book starts by explaining how you can build your own neural networks followed by introducing you to TensorFlow the powerful Python based library for machine learning and deep learning Moving on you will get up to speed with gradient descent variants such as NAG AMSGrad AdaDelta Adam and Nadam The book will then provide you with insights into RNNs and LSTM and how to generate song lyrics with RNN Next you will master the math for convolutional and capsule networks widely used for image recognition tasks Then you learn how machines understand the semantics of words and documents using CBOW skip gram and PV DM Afterward you will explore various GANs including InfoGAN and LSGAN and autoencoders such as contractive autoencoders and VAE By the end of this book you will be equipped with all the skills you need to implement deep learning in your own projects What you will learn Implement basic to advanced deep learning algorithms Master the mathematics behind deep learning algorithms Become familiar with gradient descent and its variants such as AMSGrad AdaDelta Adam and Nadam Implement recurrent networks such as RNN LSTM GRU and seq2seq models Understand how machines interpret images using CNN and capsule networks Implement different types of generative adversarial network such as CGAN CycleGAN and StackGAN Explore various types of autoencoder such as Sparse autoencoders DAE CAE and VAE Who this book is for If you are a machine learning engineer data scientist AI developer or simply want to focus on neural networks and deep learning this book is for you Those who are completely new to deep learning but have some experience in machine learning and Python programming will also find the book very helpful

Advanced Deep Learning with Python Ivan Vasilev,2019-12-12 Gain expertise in advanced deep learning domains such as neural networks meta learning graph neural networks and memory augmented neural networks using the Python ecosystem Key Features Get to grips with building faster and more robust deep learning architectures Investigate and train

convolutional neural network CNN models with GPU accelerated libraries such as TensorFlow and PyTorch Apply deep neural networks DNNs to computer vision problems NLP and GANs Book Description In order to build robust deep learning systems you ll need to understand everything from how neural networks work to training CNN models In this book you ll discover newly developed deep learning models methodologies used in the domain and their implementation based on areas of application You ll start by understanding the building blocks and the math behind neural networks and then move on to CNNs and their advanced applications in computer vision You ll also learn to apply the most popular CNN architectures in object detection and image segmentation Further on you ll focus on variational autoencoders and GANs You ll then use neural networks to extract sophisticated vector representations of words before going on to cover various types of recurrent networks such as LSTM and GRU You ll even explore the attention mechanism to process sequential data without the help of recurrent neural networks RNNs Later you ll use graph neural networks for processing structured data along with covering meta learning which allows you to train neural networks with fewer training samples Finally you ll understand how to apply deep learning to autonomous vehicles By the end of this book you ll have mastered key deep learning concepts and the different applications of deep learning models in the real world What you will learn Cover advanced and state of the art neural network architectures Understand the theory and math behind neural networks Train DNNs and apply them to modern deep learning problems Use CNNs for object detection and image segmentation Implement generative adversarial networks GANs and variational autoencoders to generate new images Solve natural language processing NLP tasks such as machine translation using sequence to sequence models Understand DL techniques such as meta learning and graph neural networks Who this book is for This book is for data scientists deep learning engineers and researchers and AI developers who want to further their knowledge of deep learning and build innovative and unique deep learning projects Anyone looking to get to grips with advanced use cases and methodologies adopted in the deep learning domain using real world examples will also find this book useful Basic understanding of deep learning concepts and working knowledge of the Python programming language is assumed *Python Deep Learning* Ivan Vasilev, Daniel Slater, Gianmario Spacagna, Peter Roelants, Valentino Zocca, 2019-01-16 Learn advanced state of the art deep learning techniques and their applications using popular Python libraries Key Features Build a strong foundation in neural networks and deep learning with Python libraries Explore advanced deep learning techniques and their applications across computer vision and NLP Learn how a computer can navigate in complex environments with reinforcement learning Book Description With the surge in artificial intelligence in applications catering to both business and consumer needs deep learning is more important than ever for meeting current and future market demands With this book you ll explore deep learning and learn how to put machine learning to use in your projects This second edition of Python Deep Learning will get you up to speed with deep learning deep neural networks and how to train them with high performance algorithms and popular Python frameworks You ll uncover different neural network

architectures such as convolutional networks recurrent neural networks long short term memory LSTM networks and capsule networks You'll also learn how to solve problems in the fields of computer vision natural language processing NLP and speech recognition You'll study generative model approaches such as variational autoencoders and Generative Adversarial Networks GANs to generate images As you delve into newly evolved areas of reinforcement learning you'll gain an understanding of state of the art algorithms that are the main components behind popular games Go Atari and Dota By the end of the book you will be well versed with the theory of deep learning along with its real world applications What you will learn Grasp the mathematical theory behind neural networks and deep learning processes Investigate and resolve computer vision challenges using convolutional networks and capsule networks Solve generative tasks using variational autoencoders and Generative Adversarial Networks Implement complex NLP tasks using recurrent networks LSTM and GRU and attention models Explore reinforcement learning and understand how agents behave in a complex environment Get up to date with applications of deep learning in autonomous vehicles Who this book is for This book is for data science practitioners machine learning engineers and those interested in deep learning who have a basic foundation in machine learning and some Python programming experience A background in mathematics and conceptual understanding of calculus and statistics will help you gain maximum benefit from this book

[Machine Learning and Deep Learning Using Python and TensorFlow](#) Venkata Reddy Konasani, Shailendra Kadre, 2021-04-29 Understand the principles and practices of machine learning and deep learning This hands on guide lays out machine learning and deep learning techniques and technologies in a style that is approachable using just the basic math required Written by a pair of experts in the field Machine Learning and Deep Learning Using Python and TensorFlow contains case studies in several industries including banking insurance e-commerce retail and healthcare The book shows how to utilize machine learning and deep learning functions in today's smart devices and apps You will get download links for datasets code and sample projects referred to in the text Coverage includes Machine learning and deep learning concepts Python programming and statistics fundamentals Regression and logistic regression Decision trees Model selection and cross validation Cluster analysis Random forests and boosting Artificial neural networks TensorFlow and Keras Deep learning hyperparameters Convolutional neural networks Recurrent neural networks and long short term memory

**Deep Learning with TensorFlow** Giancarlo Zaccane, 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

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