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Neural Network In 5 Minutes | What Is A Neural Network? | How Neural Networks Work | Simplilearn Neural Networks Explained - Machine Learning Tutorial for Beginners

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HOW TO GET STARTED WITH MACHINE LEARNING! Beginner Intro to Neural Networks 4: First Neural Network in Python

Google Coding Interview With A Competitive Programmer

11. Introduction to Machine Learning

Keras Explained Create a Simple Neural Network in Python from Scratch — Part 2 A friendly introduction to Deep Learning and Neural Networks Best Books for Neural Networks or Deep Learning Build a deep neural network in 4 mins with TensorFlow in Colab Deep Learning with MATLAB: Training a Neural Network from Scratch with MATLAB But what is a Neural Network? | Deep

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~~learning, chapter 1 6 Implementing a neural network from scratch in Python~~

Build Your First Machine Learning AI With Neural Networks
Build a Neural Net in 25 Lines of Python
Build Your Own Neural Network

One of the first steps in building a neural network is finding the appropriate activation function. In our case, we wish to predict if a picture has a cat or not. Therefore, this can be framed as a binary classification problem. Ideally, we would have a function that outputs 1 for a cat picture, and 0 otherwise.

Step-by-step Guide to Building Your Own Neural Network ...

I've certainly learnt a lot writing my own Neural Network from scratch. Although Deep Learning libraries such as TensorFlow and Keras makes it

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easy to build deep nets without fully understanding the inner workings of a Neural Network, I find that it's beneficial for aspiring data scientist to gain a deeper understanding of Neural Networks.

How to build your own Neural Network from scratch in ...

The first step in building our neural network will be to initialize the parameters. We need to initialize two parameters for each of the neurons in each layer: 1) Weight and 2) Bias .

These weights and biases are declared in vectorized form.

How to build a Neural Network from scratch

Creating your own neural network from scratch will help you better understand what's happening inside a neural

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network and the working of learning algorithms. What's a Perceptron? Perceptrons - invented by Frank Rosenblatt in 1958, are the simplest neural network that consists of n number of inputs, only one neuron and one output, where n is the number of features of our dataset.

Build Your Own Neural Network in Go | by Dasaradh S K ...

Fisseha Berhane, PhD 1 - Packages ¶. Let's first import all the packages that you will need during this assignment. It will help us grade... 2 - Outline of the Assignment ¶. To build your neural network, you will be implementing several "helper functions". 3 - Initialization ¶. You will write two ...

Building your Deep Neural Network:

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Step by Step By Step

To build your neural network, you will be implementing several "helper functions". These helper functions will be used in the next assignment to build a two-layer neural network and an L-layer neural network. Each small helper function you will implement will have detailed instructions that will walk you through the necessary steps.

Building your Deep Neural Network | SnailDove's blog

Neural networks can be intimidating, especially for people with little experience in machine learning and cognitive science! However, through code, this tutorial will explain how neural networks operate. By the end, you will know how to build your own flexible, learning network, similar to Mind.

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Mind: How to Build a Neural Network (Part One)

Instructions Showing You How To Build Them Faster Than You Can Imagine Possible Using K

First, let us do some necessary imports. The keras library helps us build our convolutional neural network. We download the mnist dataset through keras. We import a sequential model which is a pre-built keras model where you can just add the layers. We import the convolution and pooling layers.

Build Your Own Convolution Neural Network in 5 mins | by ...

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together to host and review code, manage projects, and build software together. ...

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your Deep Neural Network - Step by
Step.ipynb. Go to file. Go to file T. Go
to line L. Copy path. TomekB Update
Building your Deep Neural Network -
Step by Step.ipynb. Latest commit
6bb3818 on Nov 18, 2017 History.
Small typo. 2 contributors.

deep-learning-coursera/Building your
Deep Neural Network ...

The first artificial neural networks
weren't abstractions inside a
computer, but actual physical systems
made of whirring motors and big

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bundles of wire. Here I'll describe how you can build one for yourself using SnapCircuits, a kid's electronics kit. I'll also muse about how to build a network that works optically using a webcam.

Build Your Own Artificial Neural Network. It's Easy ...

First we need to define the structure of our Neural Network. Because our dataset is relatively simple, a network with just a hidden layer will do fine. So we will have an input layer, a hidden layer and an output layer. Next we need an activation function.

How to build a simple Neural Network from scratch with ...

Neural Networks consist of the following components. An input layer, x ; An arbitrary amount of hidden

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layers; An output layer, \hat{y} ; A set of weights and biases between each layer, W and b ; A choice of activation function for each hidden layer, σ . In this tutorial, we'll use a Sigmoid activation function. Creating a Neural Network class in Python is easy.

How to build your own Neural Network from scratch in ...

Lastly, we have to code in our fully connected layer, which is similar to what we've done in our previous post, Build your first Neural Network.

However, at this point, our neurons are spatially...

Build your first Convolutional Neural Network to recognize ...

You'll learn to code in Python and make your own neural network, teaching it to recognise human

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handwritten numbers, and performing as well as professionally developed networks. Part 1 is about ideas. We introduce the mathematical ideas underlying the neural networks, gently with lots of illustrations and examples. Part 2 is practical.

Make Your Own Neural Network
eBook: Rashid, Tariq: Amazon ...

Neural network seems like a black box to many of us. What happens inside it, how does it happen, how to build your own neural network to classify the images in datasets like MNIST, CIFAR-10 etc. are the questions that keep popping up. Let's try to understand a Neural Network in brief and jump towards building it for CIFAR-10 dataset.

Build your own Neural Network for

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CIFAR-10 using PyTorch ...

We built a simple neural network using Python! First the neural network assigned itself random weights, then trained itself using the training set.

Then it considered a new situation [1, 0, 0] and...

How to build a simple neural network in 9 lines of Python ...

Buy Build Your Own Neural Network Today!: With step by step instructions showing you how to build them faster than you imagined possible using R by Dr. N D Lewis (ISBN: 9781519101235) from Amazon's Book Store. Everyday low prices and free delivery on eligible orders.

Build Your Own Neural Network

Today!: With step by step ...

It walks through the very basics of

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neural networks and creates a working example using Python. I enjoyed the simple hands on approach the author used, and I was interested to see how we might make the same model using R. In this post we recreate the above-mentioned Python neural network from scratch in R.

A step-by-step gentle journey through the mathematics of neural networks, and making your own using the Python computer language. Neural networks are a key element of deep learning and artificial intelligence, which today is capable of some truly impressive feats. Yet too few really understand how neural networks actually work. This guide will take you on a fun and unhurried journey, starting from very

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simple ideas, and gradually building up an understanding of how neural networks work. You won't need any mathematics beyond secondary school, and an accessible introduction to calculus is also included. The ambition of this guide is to make neural networks as accessible as possible to as many readers as possible - there are enough texts for advanced readers already! You'll learn to code in Python and make your own neural network, teaching it to recognise human handwritten numbers, and performing as well as professionally developed networks. Part 1 is about ideas. We introduce the mathematical ideas underlying the neural networks, gently with lots of illustrations and examples. Part 2 is practical. We introduce the popular and easy to learn Python programming

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language, and gradually builds up a neural network which can learn to recognise human handwritten numbers, easily getting it to perform as well as networks made by professionals. Part 3 extends these ideas further. We push the performance of our neural network to an industry leading 98% using only simple ideas and code, test the network on your own handwriting, take a privileged peek inside the mysterious mind of a neural network, and even get it all working on a Raspberry Pi. All the code in this has been tested to work on a Raspberry Pi Zero.

BUILD YOUR OWN NEURAL NETWORK TODAY! With an **EASY** to follow process showing you how to build them **FASTER** than you imagined possible using **R** About This

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Book This rich, fascinating, accessible hands on guide, puts neural networks firmly into the hands of the practitioner. It reveals how they work, and takes you under the hood with an easy to follow process showing you how to build them faster than you imagined possible using the powerful, free R predictive analytics package.

Everything you need to get started is contained within this book. It is your detailed, practical, tactical hands on guide. To accelerate your success, it contains exercises with fully worked solutions also provided. Once you have mastered the process, it will be easy for you to translate your knowledge into other powerful applications. A book for everyone interested in machine learning, predictive analytics, neural networks and decision science. Here is what it

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can do for you: **SAVE TIME:** Imagine having at your fingertips easy access to the very best neural network models without getting bogged down in mathematical details. In this book, you'll learn fast effective ways to build powerful neural network models easily using R. **LEARN EASILY:** Build Your Own Neural Network TODAY!

Contains an easy to follow process showing you how to build the most successful neural networks used for learning from data; use this guide and build them easily and quickly. **BOOST PRODUCTIVITY:** Bestselling author and data scientist Dr. N.D. Lewis will show you how to build neural network models in less time than you ever imagined possible! Even if you're a busy professional, a student or hobbyist with little time, you will rapidly enhance your knowledge.

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EFFORTLESS SUCCESS: By spending as little as 10 minutes a day working through the dozens of real world examples, illustrations, practitioner tips and notes, you'll be able to make giant leaps forward in your knowledge, broaden your skill-set and generate new ideas for your own personal use. **ELIMINATE ANXIETY:** Forget trying to master every single mathematical detail, instead your goal is to simply to follow the process using real data that only takes about 5 to 15 minutes to complete. Within this process is a series of actions by which the neural network model is explained and constructed. All you have to do is follow the process. It is your checklist for use and reuse. 1 For people interested in statistics, machine learning, data analysis, data mining, and future hands-on practitioners

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seeking a career in the field, it sets a strong foundation, delivers the prerequisite knowledge, and whets your appetite for more. Here are some of the neural network models you will build: Multi layer Perceptrons Probabilistic Neural Networks Generalized Regression Neural Networks Recurrent Neural Networks Buy the book today. Your next big breakthrough using neural networks is only a page away!

Build real-world Artificial Intelligence applications with Python to intelligently interact with the world around you About This Book Step into the amazing world of intelligent apps using this comprehensive guide Enter the world of Artificial Intelligence, explore it, and create your own applications Work through simple yet insightful

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examples that will get you up and running with Artificial Intelligence in no time Who This Book Is For This book is for Python developers who want to build real-world Artificial Intelligence applications. This book is friendly to Python beginners, but being familiar with Python would be useful to play around with the code. It will also be useful for experienced Python programmers who are looking to use Artificial Intelligence techniques in their existing technology stacks. What You Will Learn Realize different classification and regression techniques Understand the concept of clustering and how to use it to automatically segment data See how to build an intelligent recommender system Understand logic programming and how to use it Build automatic speech recognition systems

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Understand the basics of heuristic search and genetic programming
Develop games using Artificial Intelligence Learn how reinforcement learning works Discover how to build intelligent applications centered on images, text, and time series data See how to use deep learning algorithms and build applications based on it In Detail Artificial Intelligence is becoming increasingly relevant in the modern world where everything is driven by technology and data. It is used extensively across many fields such as search engines, image recognition, robotics, finance, and so on. We will explore various real-world scenarios in this book and you'll learn about various algorithms that can be used to build Artificial Intelligence applications. During the course of this book, you will find out how to make

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informed decisions about what algorithms to use in a given context. Starting from the basics of Artificial Intelligence, you will learn how to develop various building blocks using different data mining techniques. You will see how to implement different algorithms to get the best possible results, and will understand how to apply them to real-world scenarios. If you want to add an intelligence layer to any application that's based on images, text, stock market, or some other form of data, this exciting book on Artificial Intelligence will definitely be your guide! Style and approach This highly practical book will show you how to implement Artificial Intelligence. The book provides multiple examples enabling you to create smart applications to meet the needs of your organization. In every

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chapter, we explain an algorithm, implement it, and then build a smart application.

A step-by-step visual journey through the mathematics of neural networks, and making your own using Python and Tensorflow. What you will gain from this book: * A deep understanding of how a Neural Network works. * How to build a Neural Network from scratch using Python. Who this book is for: * Beginners who want to fully understand how networks work, and learn to build two step-by-step examples in Python. * Programmers who need an easy to read, but solid refresher, on the math of neural networks. What's Inside - 'Make Your Own Neural Network: An Indepth Visual Introduction For Beginners'

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What Is a Neural Network? Neural networks have made a gigantic comeback in the last few decades and you likely make use of them everyday without realizing it, but what exactly is a neural network? What is it used for and how does it fit within the broader arena of machine learning? we gently explore these topics so that we can be prepared to dive deep further on. To start, we'll begin with a high-level overview of machine learning and then drill down into the specifics of a neural network. The Math of Neural Networks On a high level, a network learns just like we do, through trial and error. This is true regardless if the network is supervised, unsupervised, or semi-supervised. Once we dig a bit deeper though, we discover that a handful of mathematical functions play a major role in the trial and error process. It

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also becomes clear that a grasp of the underlying mathematics helps clarify how a network learns. * Forward Propagation * Calculating The Total Error * Calculating The Gradients * Updating The Weights Make Your Own Artificial Neural Network: Hands on Example You will learn to build a simple neural network using all the concepts and functions we learned in the previous few chapters. Our example will be basic but hopefully very intuitive. Many examples available online are either hopelessly abstract or make use of the same data sets, which can be repetitive. Our goal is to be crystal clear and engaging, but with a touch of fun and uniqueness. This section contains the following eight chapters. Building Neural Networks in Python There are many ways to build a neural network and lots

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of tools to get the job done. This is fantastic, but it can also be overwhelming when you start, because there are so many tools to choose from. We are going to take a look at what tools are needed and help you nail down the essentials. To build a neural network Tensorflow and Neural Networks There is no single way to build a feedforward neural network with Python, and that is especially true if you throw Tensorflow into the mix. However, there is a general framework that exists that can be divided into five steps and grouped into two parts. We are going to briefly explore these five steps so that we are prepared to use them to build a network later on. Ready? Let's begin.

Neural Network: Distinguish Handwriting We are going to dig deep with Tensorflow and build a neural

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network that can distinguish between handwritten numbers. We'll use the same 5 steps we covered in the high-level overview, and we are going to take time exploring each line of code. Neural Network: Classify Images 10 minutes. That's all it takes to build an image classifier thanks to Google! We will provide a high-level overview of how to classify images using a convolutional neural network (CNN) and Google's Inception V3 model. Once finished, you will be able to tweak this code to classify any type of image sets! Cats, bats, super heroes - the sky's the limit.

Build your Machine Learning portfolio by creating 6 cutting-edge Artificial Intelligence projects using neural networks in Python Key FeaturesDiscover neural network

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architectures (like CNN and LSTM) that are driving recent advancements in AI. Build expert neural networks in Python using popular libraries such as Keras. Includes projects such as object detection, face identification, sentiment analysis, and more.

Book Description

Neural networks are at the core of recent AI advances, providing some of the best resolutions to many real-world problems, including image recognition, medical diagnosis, text analysis, and more. This book goes through some basic neural network and deep learning concepts, as well as some popular libraries in Python for implementing them. It contains practical demonstrations of neural networks in domains such as fare prediction, image classification, sentiment analysis, and more. In each case, the book provides a problem

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statement, the specific neural network architecture required to tackle that problem, the reasoning behind the algorithm used, and the associated Python code to implement the solution from scratch. In the process, you will gain hands-on experience with using popular Python libraries such as Keras to build and train your own neural networks from scratch. By the end of this book, you will have mastered the different neural network architectures and created cutting-edge AI projects in Python that will immediately strengthen your machine learning portfolio. What you will learn

Learn various neural network architectures and its advancements in AI Master deep learning in Python by building and training neural network Master neural networks for regression and classification Discover convolutional

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neural networks for image recognition Learn sentiment analysis on textual data using Long Short-Term Memory Build and train a highly accurate facial recognition security system Who this book is for This book is a perfect match for data scientists, machine learning engineers, and deep learning enthusiasts who wish to create practical neural network projects in Python. Readers should already have some basic knowledge of machine learning and neural networks.

Though mathematical ideas underpin the study of neural networks, the author presents the fundamentals without the full mathematical apparatus. All aspects of the field are tackled, including artificial neurons as models of their real counterparts; the geometry of network action in pattern

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space; gradient descent methods, including back-propagation; associative memory and Hopfield nets; and self-organization and feature maps. The traditionally difficult topic of adaptive resonance theory is clarified within a hierarchical description of its operation. The book also includes several real-world examples to provide a concrete focus. This should enhance its appeal to those involved in the design, construction and management of networks in commercial environments and who wish to improve their understanding of network simulator packages. As a comprehensive and highly accessible introduction to one of the most important topics in cognitive and computer science, this volume should interest a wide range of readers, both students and professionals, in

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cognitive science, psychology, computer science and electrical engineering.

Summary Deep Learning with Python introduces the field of deep learning using the Python language and the powerful Keras library. Written by Keras creator and Google AI researcher François Chollet, this book builds your understanding through intuitive explanations and practical examples. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Machine learning has made remarkable progress in recent years. We went from near-unusable speech and image recognition, to near-human accuracy. We went from machines that couldn't beat a serious Go player, to

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defeating a world champion. Behind this progress is deep learning—a combination of engineering advances, best practices, and theory that enables a wealth of previously impossible smart applications. About the Book Deep Learning with Python introduces the field of deep learning using the Python language and the powerful Keras library. Written by Keras creator and Google AI researcher François Chollet, this book builds your understanding through intuitive explanations and practical examples. You'll explore challenging concepts and practice with applications in computer vision, natural-language processing, and generative models. By the time you finish, you'll have the knowledge and hands-on skills to apply deep learning in your own projects. What's Inside Deep learning

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from first principles Setting up your own deep-learning environment Image-classification models Deep learning for text and sequences Neural style transfer, text generation, and image generation About the Reader Readers need intermediate Python skills. No previous experience with Keras, TensorFlow, or machine learning is required. About the Author François Chollet works on deep learning at Google in Mountain View, CA. He is the creator of the Keras deep-learning library, as well as a contributor to the TensorFlow machine-learning framework. He also does deep-learning research, with a focus on computer vision and the application of machine learning to formal reasoning. His papers have been published at major conferences in the field, including the Conference on Computer

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Vision and Pattern Recognition (CVPR), the Conference and Workshop on Neural Information Processing Systems (NIPS), the International Conference on Learning Representations (ICLR), and others.

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Instructions Showing You Summary Grokking Deep Learning teaches you to build deep learning neural networks from scratch! In his engaging style, seasoned deep learning expert Andrew Trask shows you the science under the hood, so you grok for yourself every detail of training neural networks. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Deep learning, a branch of artificial intelligence, teaches computers to learn by using neural networks, technology inspired by the human brain. Online text translation, self-driving cars, personalized product recommendations, and virtual voice assistants are just a few of the exciting modern advancements possible

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thanks to deep learning. About the Book Grokking Deep Learning teaches you to build deep learning neural networks from scratch! In his engaging style, seasoned deep learning expert Andrew Trask shows you the science under the hood, so you grok for yourself every detail of training neural networks. Using only Python and its math-supporting library, NumPy, you'll train your own neural networks to see and understand images, translate text into different languages, and even write like Shakespeare! When you're done, you'll be fully prepared to move on to mastering deep learning frameworks. What's inside The science behind deep learning Building and training your own neural networks Privacy concepts, including federated learning Tips for continuing your pursuit of deep learning About the

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Reader For readers with high school-level math and intermediate programming skills. About the Author Andrew Trask is a PhD student at Oxford University and a research scientist at DeepMind. Previously, Andrew was a researcher and analytics product manager at Digital Reasoning, where he trained the world's largest artificial neural network and helped guide the analytics roadmap for the Synthesys cognitive computing platform. Table of Contents

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backpropagation How to picture neural networks: in your head and on paper Learning signal and ignoring noise: introduction to regularization and batching Modeling probabilities and nonlinearities: activation functions Neural learning about edges and corners: intro to convolutional neural networks Neural networks that understand language: king - man + woman == ? Neural networks that write like Shakespeare: recurrent layers for variable-length data Introducing automatic optimization: let's build a deep learning framework Learning to write like Shakespeare: long short-term memory Deep learning on unseen data: introducing federated learning Where to go from here: a brief guide

☐☐ The Best Neural Networks Book for

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Beginners If you are looking for a complete beginners guide to learn neural networks with examples, in just a few hours, then you need to continue reading. Have you noticed the increasing prevalence of software that tries to learn from you? More and more, we are interacting with machines and platforms that try to predict what we are looking for. From movie and television show recommendations on Netflix based on your taste to the keyboard on your smartphone trying to predict and recommend the next word you may want to type, it's becoming obvious that machine learning will definitely be part of our future. If you are interested in learning more about the computer programs of tomorrow then, [Understanding Neural Networks - A Practical Guide for Understanding and](#)

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Programming Neural Networks and Useful Insights for Inspiring Reinvention is the book you have been waiting for. Grab your copy today and learn

- The history of neural networks and the way modern neural networks work
- How deep learning works
- The different types of neural networks
- The ability to explain a neural network to others, while simultaneously being able to build on this knowledge without being COMPLETELY LOST
- How to build your own neural network!
- An effective technique for hacking into a neural network
- Some introductory advice for modifying parameters in the code-based environment
- And much more...

You'll be an Einstein in no time! And even if you are already up to speed on the topic, this book has the power to illustrate what a neural

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network is in a way that is capable of inspiring new approaches and technical improvements. The world can't wait to see what you can do!

Most of all, this book will feed the abstract reasoning region of your mind so that you are able to theorize and invent new types and styles of machine learning. So, what are you waiting for? Scroll up and click the buy now button to learn everything you need to know in no time!

This textbook presents a concise, accessible and engaging first introduction to deep learning, offering a wide range of connectionist models which represent the current state-of-the-art. The text explores the most popular algorithms and architectures in a simple and intuitive style, explaining the mathematical derivations in a step-

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by-step manner. The content coverage includes convolutional networks, LSTMs, Word2vec, RBMs, DBNs, neural Turing machines, memory networks and autoencoders.

Numerous examples in working Python code are provided throughout the book, and the code is also supplied separately at an accompanying website. Topics and features: introduces the fundamentals of machine learning, and the mathematical and computational prerequisites for deep learning; discusses feed-forward neural networks, and explores the modifications to these which can be applied to any neural network; examines convolutional neural networks, and the recurrent connections to a feed-forward neural network; describes the notion of

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distributed representations, the concept of the autoencoder, and the ideas behind language processing with deep learning; presents a brief history of artificial intelligence and neural networks, and reviews interesting open research problems in deep learning and connectionism. This clearly written and lively primer on deep learning is essential reading for graduate and advanced undergraduate students of computer science, cognitive science and mathematics, as well as fields such as linguistics, logic, philosophy, and psychology.

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