

Hamed Habibi Aghdam
Elnaz Jahani Heravi

Guide to Convolutional Neural Networks

A Practical Application to Traffic-Sign
Detection and Classification

Neural Networks Guide

Lionel Tarassenko



Neural Networks Guide:

Neural Network Projects with Python James Loy, 2019-02-28 Build your Machine Learning portfolio by creating 6 cutting edge Artificial Intelligence projects using neural networks in Python Key Features Discover neural network 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 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 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 *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 **Guide to**

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Recurrent Neural Networks with Python Quick Start Guide Simeon Kostadinov, 2018-11-30 Learn how to develop intelligent applications with sequential learning and apply modern methods for language modeling with neural network architectures for deep learning with Python's most popular TensorFlow framework Key Features Train and deploy Recurrent Neural Networks using the popular TensorFlow library Apply long short term memory units Expand your skills in complex neural network and deep learning topics Book Description Developers struggle to find an easy to follow learning resource for implementing Recurrent Neural Network RNN models RNNs are the state of the art model in deep learning for dealing with sequential data From language translation to generating captions for an image RNNs are used to continuously improve results This book will teach you the fundamentals of RNNs with example applications in Python and the TensorFlow library The examples are accompanied by the right combination of theoretical knowledge and real world implementations of concepts to build a solid foundation of neural network modeling Your journey starts with the simplest RNN model where you can grasp the fundamentals The book then builds on this by proposing more advanced and complex algorithms We use them to explain how a typical state of the art RNN model works From generating text to building a language translator we show how some of today's most powerful AI applications work under the hood After reading the book you will be confident with the fundamentals of RNNs and be ready to pursue further study along with developing skills in this exciting field What you will learn Use TensorFlow to build RNN models Use the correct RNN architecture for a particular machine learning task Collect and clear the training data for your models Use the correct Python libraries for any task during the building phase of your

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A Guide to Convolutional Neural Networks for Computer Vision Salman Khan,Hossein Rahmani,Syed Afaq Ali Shah,Mohammed Bennamoun,2018-02-13 Computer vision has become increasingly important and effective in recent years due to its wide ranging applications in areas as diverse as smart surveillance and monitoring health and medicine sports and recreation robotics drones and self driving cars Visual recognition tasks such as image classification localization and detection are the core building blocks of many of these applications and recent developments in Convolutional Neural Networks CNNs have led to outstanding performance in these state of the art visual recognition tasks and systems As a result CNNs now form the crux of deep learning algorithms in computer vision This self contained guide will benefit those who seek to both understand the theory behind CNNs and to gain hands on experience on the application of CNNs in computer vision It provides a comprehensive introduction to CNNs starting with the essential concepts behind neural networks training regularization and optimization of CNNs The book also discusses a wide range of loss functions network layers and popular CNN architectures reviews the different techniques for the evaluation of CNNs and presents some popular CNN tools and libraries that are commonly used in computer vision Further this text describes and discusses case studies that are related to the application of CNN in computer vision including image classification object detection semantic segmentation scene understanding and image generation This book is ideal for undergraduate and graduate students as no prior background knowledge in the field is required to follow the material as well as new researchers developers engineers and practitioners who are interested in gaining a quick understanding of CNN models *Neural Network PC Tools* Russell C. Eberhart,2014-06-28 This is the first practical guide that enables you to actually work with artificial neural networks on your personal computer It provides basic information on neural networks as well as the following special features source code listings in C actual case studies in a wide range of applications including radar signal detection stock market prediction

musical composition ship pattern recognition and biopotential waveform classification CASE tools for neural networks and hybrid expert system neural networks practical hints and suggestions on when and how to use neural network tools to solve real world problems

Neural Networks G David Garson,1998-09-24 This book provides the first accessible introduction to neural network analysis as a methodological strategy for social scientists The author details numerous studies and examples which illustrate the advantages of neural network analysis over other quantitative and modelling methods in widespread use Methods are presented in an accessible style for readers who do not have a background in computer science The book provides a history of neural network methods a substantial review of the literature detailed applications coverage of the most common alternative models and examples of two leading software packages for neural network analysis

A Neural Network Guide to Teaching Justine C. Baker,Francis G. Martin,1998 Discusses biological and artificial neural networks neural network learning and instructional practice

Convolutional Neural Networks In Python Frank Millstein,2020-07-06 Convolutional Neural Networks in Python This book covers the basics behind Convolutional Neural Networks by introducing you to this complex world of deep learning and artificial neural networks in a simple and easy to understand way It is perfect for any beginner out there looking forward to learning more about this machine learning field This book is all about how to use convolutional neural networks for various image object and other common classification problems in Python Here we also take a deeper look into various Keras layer used for building CNNs we take a look at different activation functions and much more which will eventually lead you to creating highly accurate models able of performing great task results on various image classification object classification and other problems Therefore at the end of the book you will have a better insight into this world thus you will be more than prepared to deal with more complex and challenging tasks on your own Here Is a Preview of What You ll Learn In This Book Convolutional neural networks structure How convolutional neural networks actually work Convolutional neural networks applications The importance of convolution operator Different convolutional neural networks layers and their importance Arrangement of spatial parameters How and when to use stride and zero padding Method of parameter sharing Matrix multiplication and its importance Pooling and dense layers Introducing non linearity relu activation function How to train your convolutional neural network models using backpropagation How and why to apply dropout CNN model training process How to build a convolutional neural network Generating predictions and calculating loss functions How to train and evaluate your MNIST classifier How to build a simple image classification CNN And much much more Get this book NOW and learn more about Convolutional Neural Networks in Python

Guide to Convolutional Neural Networks Hamed Habibi Aghdam,Elnaz Jahani Heravi,2017-05-17 This must read text reference introduces the fundamental concepts of convolutional neural networks ConvNets offering practical guidance on using libraries to implement ConvNets in applications of traffic sign detection and classification The work presents techniques for optimizing the computational efficiency of ConvNets as well as visualization techniques to better understand

the underlying processes The proposed models are also thoroughly evaluated from different perspectives using exploratory and quantitative analysis Topics and features explains the fundamental concepts behind training linear classifiers and feature learning discusses the wide range of loss functions for training binary and multi class classifiers illustrates how to derive ConvNets from fully connected neural networks and reviews different techniques for evaluating neural networks presents a practical library for implementing ConvNets explaining how to use a Python interface for the library to create and assess neural networks describes two real world examples of the detection and classification of traffic signs using deep learning methods examines a range of varied techniques for visualizing neural networks using a Python interface provides self study exercises at the end of each chapter in addition to a helpful glossary with relevant Python scripts supplied at an associated website This self contained guide will benefit those who seek to both understand the theory behind deep learning and to gain hands on experience in implementing ConvNets in practice As no prior background knowledge in the field is required to follow the material the book is ideal for all students of computer vision and machine learning and will also be of great interest to practitioners working on autonomous cars and advanced driver assistance systems Neural Networks Laurie Thomas, 2022-12-27 This book is all about how to use deep learning for computer vision using convolutional neural networks These are the state of the art when it comes to image classification and they beat vanilla deep networks at tasks like mnist In this course we are going to up the ante and look at the streetview house number svhn dataset which uses larger color images at various angles so things are going to get tougher both computationally and in terms of the difficulty of the classification task Benefits of reading this book that you re not going to find anywhere else Introduction to neural networks Structures of neural networks Building a neural network The construction of artificial neurons The biological neurons model How they work The capabilities of neural network structure Organizing your network Deep learning is a new concept that has emerged since the 2000s While deep learning is new to it this is not the case with artificial neural networks a concept on which deep learning is based We hear about the first artificial neuron in 1943 when warren mcculloch and walterpitts published their first mathematical and computer model of the biological neuron the formal neuron The formal neuron is directly inspired by the biological neuron

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Table of Contents Neural Networks Guide

1. Understanding the eBook Neural Networks Guide
 - The Rise of Digital Reading Neural Networks Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Neural Networks Guide
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Neural Networks Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Neural Networks Guide
 - Personalized Recommendations

- Neural Networks Guide User Reviews and Ratings
- Neural Networks Guide and Bestseller Lists
- 5. Accessing Neural Networks Guide Free and Paid eBooks
 - Neural Networks Guide Public Domain eBooks
 - Neural Networks Guide eBook Subscription Services
 - Neural Networks Guide Budget-Friendly Options
- 6. Navigating Neural Networks Guide eBook Formats
 - ePub, PDF, MOBI, and More
 - Neural Networks Guide Compatibility with Devices
 - Neural Networks Guide Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Neural Networks Guide
 - Highlighting and Note-Taking Neural Networks Guide
 - Interactive Elements Neural Networks Guide
- 8. Staying Engaged with Neural Networks Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Neural Networks Guide
- 9. Balancing eBooks and Physical Books Neural Networks Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Neural Networks Guide
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Neural Networks Guide
 - Setting Reading Goals Neural Networks Guide
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Neural Networks Guide
 - Fact-Checking eBook Content of Neural Networks Guide

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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