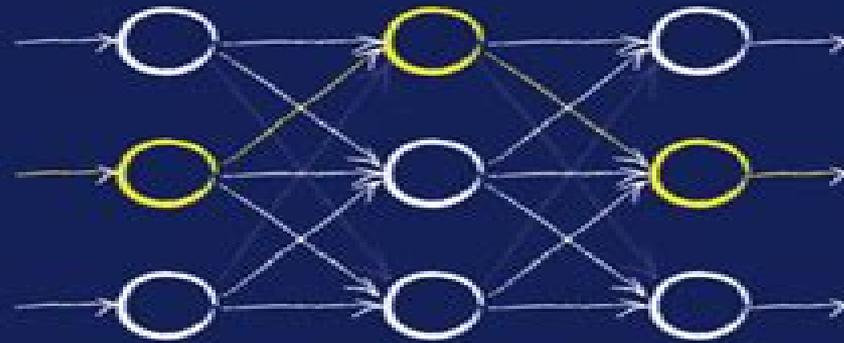


# MAKE YOUR OWN NEURAL NETWORK



*A gentle journey through the mathematics of  
neural networks, and making your own  
using the Python computer language.*

TARIQ RASHID

# Make Your Own Neural Network

**Wolfgang Guggemos**



## **Make Your Own Neural Network:**

*Make Your Own Neural Network* Tariq Rashid, 2016 This book is for anyone who wants to understand what neural networks are It is for anyone who wants to make and use their own And it is for anyone who wants to appreciate the fairly easy but exciting mathematical ideas that are at the core of how they work This guide is not aimed at experts in mathematics or computer science You won't need any special knowledge or mathematical ability beyond school maths sic Teachers can use this guide as a particularly gentle explanation of neural networks and their implementation to enthuse and excite students making their very own learning artificial intelligence with only a few lines of programming language code The code has been tested to work with a Raspberry Pi a small inexpensive computer very popular in schools and with young students page 6 Introduction

**Make Your Own Neural Network: An In-Depth Visual Introduction for Beginners** Michael Taylor, 2017-10-04 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 In-depth Visual Introduction For Beginners 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 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 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 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 [Neural Network Tutorials - Herong's Tutorial Examples](#) Herong Yang,2021-03-06 This book is a collection of notes and sample codes written by the author while he was learning Neural Networks in Machine Learning Topics include Neural Networks NN concepts nodes layers activation functions learning rates training sets etc deep playground for classical neural networks building neural networks with Python walking through Tariq Rashi s Make Your Own Neural Network source code using TensorFlow and PyTorch machine learning platforms understanding CNN Convolutional Neural Network RNN Recurrent Neural Network GNN Graph Neural Network Updated in 2023 Version v1.22 with minor updates For latest updates and free sample chapters visit <https://www.herongyang.com/Neural-Network-Dynamical-Systems-with-Applications-Using-MATLAB/> Stephen Lynch,2025-09-09 This textbook now in its third edition provides a broad and accessible introduction to both continuous and discrete dynamical systems the theory of which is motivated by examples from a wide range of disciplines It emphasizes applications and simulation utilizing MATLAB Simulink the Image Processing Toolbox the Symbolic Math Toolbox and the Deep Learning Toolbox The text begins with a tutorial introduction to MATLAB that assumes no prior programming knowledge Discrete systems are covered in the first part after which the second part explores the study of continuous systems using delay ordinary and partial differential equations The third part considers chaos control and synchronization binary oscillator computing Simulink and the Deep Learning Toolbox A final chapter provides examination and coursework type MATLAB questions for use by instructors and students For the Third Edition all the material has been thoroughly updated in line with the most recent version of MATLAB R2025a New chapters have been added on artificial neural networks delay differential equations numerical methods for ordinary and partial differential equations and the Deep Learning Toolbox MATLAB program files Simulink model files and other materials are available to download from the author s website and through GitHub The hands on approach of Dynamical Systems with Applications using MATLAB has minimal prerequisites only requiring familiarity with ordinary differential equations It will appeal to advanced undergraduate and graduate students applied mathematicians engineers and researchers in a broad range of disciplines such as population dynamics biology chemistry computing economics nonlinear optics neural networks and physics Praise for the Second Edition This

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