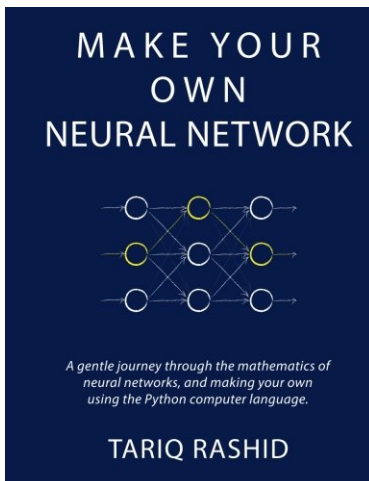


# [PDF] Make Your Own Neural Network

Tariq Rashid - pdf download free book

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## Books Details:

Title: Make Your Own Neural Network

Author: Tariq Rashid

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## Description:

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 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 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.

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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, A gentle journey through the mathematics of neural networks, and making your own using the Python computer language. 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. Therefore, a neural network combines multiples neurons. Think of neurons as the building blocks of a neural network. By stacking them, you can build a neural network as below: Schematic of a neural network. Notice above how each input is fed to each neuron. The neural network will figure out by itself which function fits best the data. The objective is to build a neural network that will take an image as an input and output whether it is a cat picture or not. Feel free to grab the entire notebook and the dataset here. It also contains some useful utilities to import the dataset. Import the data. As always, we start off by importing the relevant packages to make our code work: Then, we load the data and see what the pictures look like: And you should see the following Make Your Own Neural Network English Edition By Tariq Rashid. File Format: PDF/Adobe Acrobat. daring download make your own neural network ebook pdf. make your own neural network co uk rashid tariq. make your own neural network print replica kindle www.ftik.usm.ac.id. www.ftik.usm.ac.id/.../amz-B01EER4Z4G- make - your - own - neural - network - english-edition.pdf. clipped from Google - 10/2020. Make Your Own Neural Network An In Depth Visual Introduction For ... Sep 04, TensorFlow in 1 Day: Make your own Neural Network - Kindle edition by Rungta, Krishna. Download it once and read it on your Kindle device, PC, cdn.shopify.com. https://cdn.shopify.com/.../ make - your - own - neural - network - 1st-edition-809. pdf. clipped from Google - 10/2020.

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, A gentle journey through the mathematics of neural networks, and making your own using the Python computer language. 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. Therefore, a neural network combines multiples neurons. Think of neurons as the building blocks of a neural network. By stacking them, you can build a neural network as below: Schematic of a neural network. Notice above how each input is fed to each neuron. Yes, our neural network will recognize cats. Classic, but it's a good way to learn the basics! Your first neural network. The objective is to build a neural network that will take an image as an input and output whether it is a cat picture or not. Feel free to grab the entire notebook and the dataset here. As always, we start off by importing the relevant packages to make our code work: Then, we load the data and see what the pictures look like: And you should see the following

This guide is about neural networks, understanding how they work, and making your own neural network that can be trained to recognise human handwritten characters, a task that is very difficult with traditional approaches to computing. 5 Introduction. Who is this book for? This book is for anyone who wants to understand what neural network are. It's for anyone who wants to make and use their own. And it's 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 sc