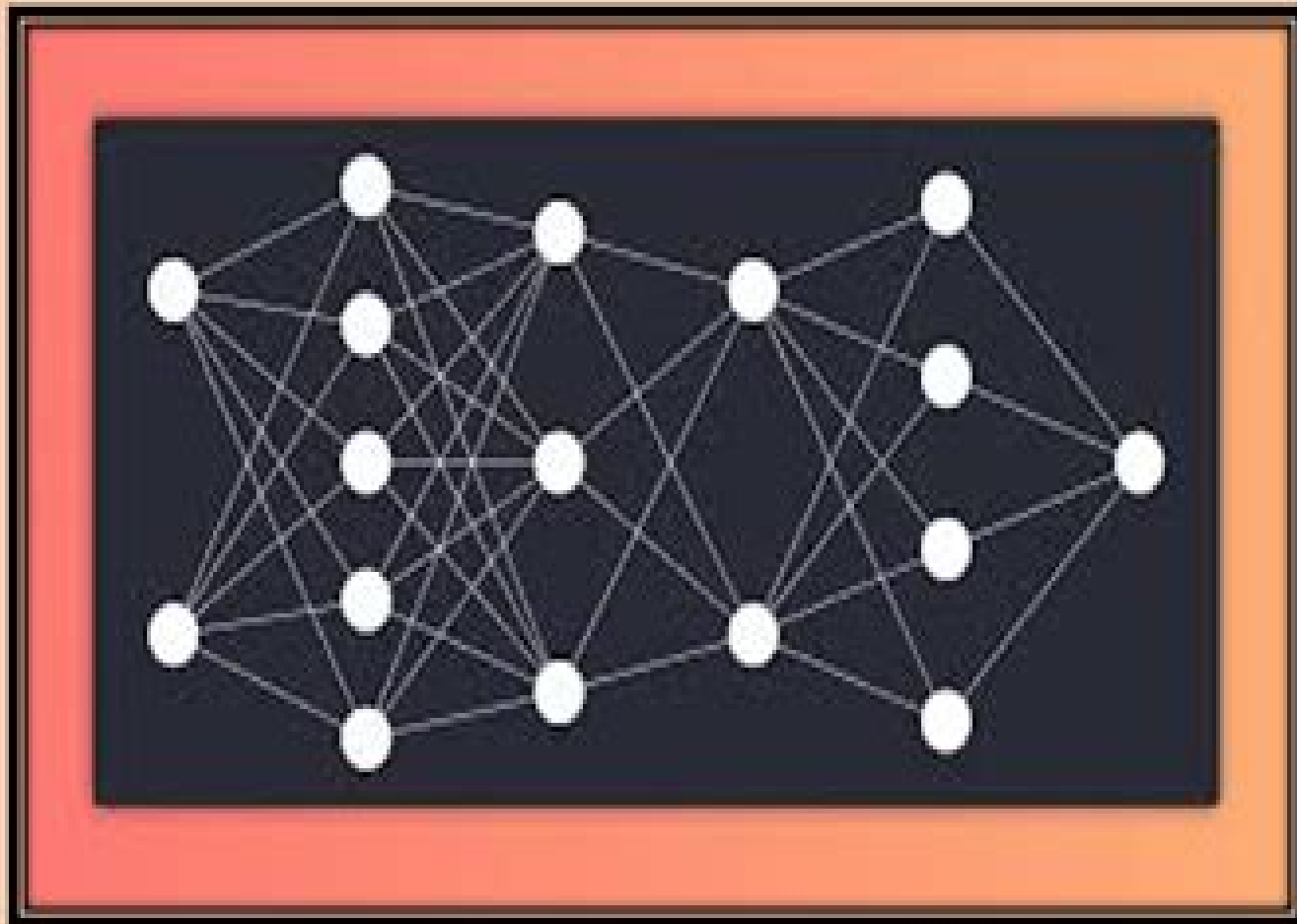# Make Your Own Neural Network

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Alex Nordeen

Make Your Own Neural Network:

Make Your Own Neural Network Tariq Rashid,2016 This book is for anyone who wants to understand what neural network s 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 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 *Neuronale Netze selbst programmieren* Tariq Rashid,2024-06-25 Neuronale Netze und Grundlagen der K nstlichen Intelligenz verst ndlich dargestellt Der Bestseller hat Furore gemacht weil der Autor diese sowohl trockene als auch schwierige Materie au ergew hnlich klar erkl rt Neu in der vollst ndig aktualisierten 2 Auflage Das neuronale Netz wird abschlie end mit PyTorch erstellt um es in ein typisches professionelles Szenario zu berf hren Neuronale Netze sind Grundlage vieler Anwendungen im Alltag wie Spracherkennung Gesichtserkennung auf Fotos das selbstfahrende Auto Umwandlung von Sprache in Text etc Neuronale Netze sind Schl sselelemente des Deep Learning und der k nstlichen Intelligenz die heute zu Erstaunlichem in der Lage sind Sie sind Grundlage vieler Anwendungen im Alltag wie beispielsweise Spracherkennung Gesichtserkennung auf Fotos oder die Umwandlung von Sprache in Text Dennoch verstehen nur wenige wie neuronale Netze tats chlich funktionieren Dieser Bestseller jetzt in erweiterter 2 Auflage nimmt Sie mit auf eine unterhaltsame Reise die mit ganz einfachen Ideen beginnt und Ihnen Schritt f r Schritt zeigt wie neuronale Netze arbeiten Zun chst lernen Sie die mathematischen Konzepte kennen die den neuronalen Netzen zugrunde liegen Daf r brauchen Sie keine tieferen Mathematikkenntnisse denn alle mathematischen Ideen werden behutsam und mit vielen Illustrationen erl utert Eine Kurzeinf hrung in die Analysis unterst tzt Sie dabei Dann geht es in die Praxis Nach einer Einf hrung in die popul re und leicht zu lernende Programmiersprache Python bauen Sie allm hlich Ihr eigenes neuronales Netz mit Python auf Sie bringen ihm bei handgeschriebene Zahlen zu erkennen bis es eine Performance wie ein professionell entwickeltes Netz erreicht Im n chsten Schritt verbessern Sie die Leistung Ihres neuronalen Netzes so weit dass es eine Zahlenerkennung von 98 % erreicht nur mit einfachen Ideen und simplem Code Sie testen das Netz mit Ihrer eigenen Handschrift und werfen noch einen Blick in das mysteri se Innere eines neuronalen Netzes Neu in der 2 Auflage Sie erstellen das neuronale Netz abschlie end mit PyTorch und berf hren es damit in ein typisches professionelles Szenario **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   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 Indepth 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 **Learn TensorFlow in 24 Hours** Alex Nordeen,2020-10-31 Tensorflow is the most popular Deep Learning Library out there It has fantastic graph computations feature which helps data scientist to visualize his designed neural network using TensorBoard This Machine learning library supports both Convolution as well as Recurrent Neural network It supports parallel processing on CPU as well as GPU Prominent machine learning algorithms supported by TensorFlow are Deep Learning Classification wipe deep Boston Tree amongst others The book is very hands on and gives you industry ready deep learnings practices Here is what is covered in the book Table Of Content Chapter 1 What is Deep learning Chapter 2 Machine Learning vs Deep Learning Chapter 3 What is TensorFlow Chapter 4 Comparison of Deep Learning Libraries Chapter 5 How to Download and Install TensorFlow Windows and Mac Chapter 6 Jupyter Notebook Tutorial Chapter 7 Tensorflow on AWS Chapter 8 TensorFlow Basics Tensor Shape Type Graph Sessions Operators Chapter 9 Tensorboard Graph Visualization with Example Chapter 10 NumPy Chapter 11 Pandas Chapter 12 Scikit Learn Chapter 13 Linear Regression Chapter 14 Linear Regression Case Study Chapter 15 Linear Classifier in TensorFlow Chapter 16 Kernel Methods Chapter 17 TensorFlow ANN Artificial Neural Network Chapter 18 ConvNet Convolutional Neural Network TensorFlow Image Classification Chapter 19 Autoencoder with TensorFlow Chapter 20 RNN Recurrent Neural Network TensorFlow **Mastering Neural Networks** Cybellium, Unleash the Power of Deep Learning for Intelligent Systems In the realm of artificial intelligence and machine learning neural networks stand as the driving force behind intelligent systems that mimic human cognition Mastering Neural Networks is your ultimate guide to comprehending and harnessing the potential of these powerful algorithms empowering you to create intelligent solutions that push the boundaries of innovation About the Book As technology advances the capabilities of neural networks become more integral to various fields Mastering Neural Networks offers an in depth exploration of this cutting edge subject an essential toolkit for data scientists engineers and enthusiasts This book caters to both newcomers and experienced learners aiming to excel in neural network concepts architectures and applications Key Features Neural Network Fundamentals Begin by understanding the core principles of neural networks Learn about artificial neurons activation functions and the architecture of these powerful algorithms Feedforward Neural Networks Dive into feedforward neural networks Explore techniques for designing training and optimizing networks for various tasks Convolutional Neural Networks Grasp the art of convolutional neural networks Understand how these architectures excel in image and pattern recognition tasks Recurrent Neural Networks Explore recurrent neural networks Learn how to process sequences and time series data making them suitable for tasks like language modeling and speech recognition Generative Adversarial Networks Understand the significance of generative adversarial networks Explore how these networks enable the generation of

realistic images text and data Transfer Learning and Fine Tuning Delve into transfer learning Learn how to leverage pretrained models and adapt them to new tasks saving time and resources Neural Network Optimization Grasp optimization techniques Explore methods for improving network performance reducing overfitting and tuning hyperparameters Real World Applications Gain insights into how neural networks are applied across industries From healthcare to finance discover the diverse applications of these algorithms Why This Book Matters In a world driven by intelligent systems mastering neural networks offers a competitive advantage Mastering Neural Networks empowers data scientists engineers and technology enthusiasts to leverage these cutting edge algorithms enabling them to create intelligent solutions that redefine the boundaries of innovation Unleash the Future of Intelligence In the landscape of artificial intelligence neural networks are reshaping technology and innovation Mastering Neural Networks equips you with the knowledge needed to leverage these powerful algorithms enabling you to create intelligent solutions that push the boundaries of innovation and redefine what s possible Whether you re a seasoned practitioner or new to the world of neural networks this book will guide you in building a solid foundation for effective AI driven solutions Your journey to mastering neural networks starts here 2023 Cybellium Ltd All rights reserved www cybellium com   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 FeaturesDiscover neural network architectures like CNN and LSTM that are driving recent advancements in AIBuild expert neural networks in Python using popular libraries such as KerasIncludes projects such as object detection face identification sentiment analysis and moreBook 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 learnLearn various neural network architectures and its advancements in AIMaster deep learning in Python by building and training neural networkMaster neural networks for regression and classificationDiscover convolutional neural networks for image recognitionLearn sentiment analysis on textual data using Long Short Term MemoryBuild and train a highly accurate facial recognition security systemWho 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   *Mobile Artificial Intelligence Projects* Karthikeyan NG,Arun Padmanabhan,Matt R. Cole,2019-03-30 Learn to build end to end AI apps from scratch for Android and iOS using TensorFlow Lite CoreML and PyTorch Key FeaturesBuild practical real world AI projects on Android and iOSImplement tasks such as recognizing handwritten digits sentiment analysis and moreExplore the core functions of machine learning deep learning and mobile visionBook Description We re witnessing a revolution in Artificial Intelligence thanks to breakthroughs in deep learning Mobile Artificial Intelligence Projects empowers you to take part in this revolution by applying Artificial Intelligence AI techniques to design applications for natural language processing NLP robotics and computer vision This book teaches you to harness the power of AI in mobile applications along with learning the core functions of NLP neural networks deep learning and mobile vision It features a range of projects covering tasks such as real estate price prediction recognizing hand written digits predicting car damage and sentiment analysis You will learn to utilize NLP and machine learning algorithms to make applications more predictive proactive and capable of making autonomous decisions with less human input In the concluding chapters you will work with popular libraries such as TensorFlow Lite CoreML and PyTorch across Android and iOS platforms By the end of this book you will have developed exciting and more intuitive mobile applications that deliver a customized and more personalized experience to users What you will learnExplore the concepts and fundamentals of AI deep learning and neural networksImplement use cases for machine vision and natural language processingBuild an ML model to predict car damage using TensorFlowDeploy TensorFlow on mobile to convert speech to textImplement GAN to recognize hand written digitsDevelop end to end mobile applications that use AI principlesWork with popular libraries such as TensorFlow Lite CoreML and PyTorchWho this book is for Mobile Artificial Intelligence Projects is for machine learning professionals deep learning engineers AI engineers and software engineers who want to integrate AI technology into mobile based platforms and applications Sound knowledge of machine learning and experience with any programming language is all you need to get started with this book   *The Computable City* Michael Batty,2024-03-26 How computers simulate cities and how they are also being embedded in cities changing our behavior and the way in which cities evolve At every stage in the history of computers and communications it is safe to say we have been unable to predict what happens next When computers first appeared nearly seventy five years ago primitive computer models were used to help understand and plan cities but as computers became faster smaller more powerful and ever more ubiquitous cities themselves began to embrace them As a result the smart city emerged In The Computable City Michael Batty investigates the circularity of this peculiar evolution how computers and communications changed the very nature of our city models which in turn are used to simulate systems composed of those same computers Batty first charts the origins of computers and examines how our computational urban models have developed and how they have been enriched by computer graphics He then explores the sequence of digital

revolutions and how they are converging focusing on continual changes in new technologies as well as the twenty first century surge in social media platform economies and the planning of the smart city He concludes by revisiting the digital transformation as it continues to confound us with the understanding that the city now a high frequency twenty four hour version of itself changes our understanding of what is possible **Deep Learning and its Applications using Python** Niha Kamal Basha,Surbhi Bhatia Khan,Abhishek Kumar,Arwa Mashat,2023-10-31 This book thoroughly explains deep learning models and how to use Python programming to implement them in applications such as NLP face detection face recognition face analysis and virtual assistance chatbot machine translation etc It provides hands on guidance in using Python for implementing deep learning application models It also identifies future research directions for deep learning

More than a Chatbot Mascha Kurpicz-Briki,2023-12-06 Recent technological advances have resulted in a new generation of powerful text processing and generation tools that produce text very similar to what a human could do Such tools have the potential to change the way we work learn and teach and this book enables you to understand and be part of this exciting development Did you wonder how tools like ChatGPT or Bard work but do not have a technical background Then this is the right book for you To discuss and better understand what such technologies are capable of and how this will impact our lives and our society a basic background knowledge about text processing and generation technologies is required In particular the book discusses the following questions How did the field of automated text processing and generation evolve over the last years and what happened to allow the incredible recent advances Are chatbots such as ChatGPT or Bard truly understanding humans What pitfalls exist and how are stereotypesof the society reflected in such models What is the potential of such technology and how will the digital society of the future look like in terms of human chatbot collaboration The book is aimed for a general audience briefly explaining mathematical or technical background when necessary After having read this book you will be confident to participate in public discussions about how this new generation of language models will impact society You will be aware of the risks and pitfalls these technologies can bring along and how to deal responsibly when making use of tools built from AI technology in general *Making AI Intelligible* Herman Cappelen,Josh Dever,2021 This innovative and accessible study illustrates how philosophy can help us understand and improve our interactions with AI **Arduino V: Machine Learning** Steven F. Barrett,2022-12-27 This book is about the Arduino microcontroller and the Arduino concept The visionary Arduino represented a new innovation in microcontroller hardware in 2005 the concept of open source hardware making a broad range of computing accessible for all This book Arduino V AI and Machine Learning is an accessible primer on Artificial Intelligence and Machine Learning for those without a deep AI and ML background The author concentrates on Artificial Intelligence AI and Machine Learning ML applications for microcontroller based systems The intent is to introduce the concepts and allow readers to practice on low cost accessible Arduino hardware and software Readers should find this book a starting point an introduction to this fascinating field A

number of references are provided for further exploration **International Conference on Reliable Systems Engineering (ICoRSE) - 2024** Daniela Doina Cioboată,2024-08-27 This book comprises peer reviewed papers from the fourth International Conference of Reliable Systems Engineering ICoRSE 2024 that will take place in Bucharest Romania between 05 and 06 September 2024 The first three editions of the conference brought together participants from different countries in Europe North America and Asia such as England Albania Austria Bulgaria Canada Czech Republic Germany France Italy Portugal Turkey Ukraine Uzbekistan and Vietnam The book presents state of the art research in the field of mechatronics and other closely related areas and covers a wide range of topics in theoretical and applied mechanics cyber physical systems research and developments in the field of robotics artificial intelligence and computer visions smart bio medical and bio mechatronic systems new and intelligent materials and structures modeling and simulation in mechanics and mechatronics smart mechatronic production and control systems optics systems big data collecting processing and analyzing micro and nanotechnology automation manufacturing optimization and others Since the book s chapters provide contributions of researchers and professionals in public and private organizations they reflect a clear picture of the novelties attained in the leading edge sciences that are in the scope of the conference It is our belief that the book will be useful to both students and researchers in all areas of engineering who will each find at least one topic worthy of their interest in this work *The Pioneering Applications of Generative AI* Kumar, Raghvendra,Sahu, Sandipan,Bhattacharya, Sudipta,2024-07-17 Integrating generative artificial intelligence AI into art design and media presents a double edged sword While it offers unprecedented creative possibilities it raises ethical concerns challenges traditional workflows and requires careful regulation As AI becomes more prevalent in these fields there is a pressing need for a comprehensive resource that explores the technology s potential and navigates the complex landscape of its implications The Pioneering Applications of Generative AI is a pioneering book that addresses these challenges head on It provides a deep dive into the evolution ethical considerations core technologies and creative applications of generative AI offering readers a thorough understanding of this transformative technology Researchers academicians scientists and research scholars will find this book invaluable in navigating the complexities of generative AI in art design and media With its focus on ethical and responsible AI and discussions on regulatory frameworks the book equips readers with the knowledge and tools needed to harness the full potential of generative AI while ensuring its responsible and ethical use **Business Intelligence** Mohamed Fakir,Mohamed Baslam,Rachid El Ayachi,2021-05-15 This book constitutes the proceedings of the 6th International Conference on Business Intelligence CBI 2021 which took place in Beni Mellal Morocco during May 27 29 2021 The 26 full and 6 poster papers included in this book were carefully reviewed and selected from a total of 60 submissions They were organized in topical sections as follows decision support information systems and NLP big data datamining Web services and Web semantics optimization and decision support signal image and vision computing networking cloud computing and

networking architectures in cloud   *FASTR* Faster Info Publishing,2019-04-18 FASTR is what you get when a Silicon Valley product designer uses design thinking to successfully resolve a persistent and pernicious anal fissure As I discovered a chronic fissure sometimes called an anal ulcer anal lesion or anal tear can disrupt pretty much everything in life robbing you of joy peace and productivity If this condition is affecting you or a loved one you re likely seeking a fast and lasting solution Those were my goals so I developed a protocol that worked for me FASTR Fissure in Ano Self Treatment and Repair consolidates key data personal experience a little discretion and plenty of empathy in a way that can save you time and reduce suffering I hope that sharing it as a pattern can help you build your own effective protocol   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 book is a valuable reference to the existing literature on dynamical systems especially for the remarkable collection of examples and applications selected from very different areas as well as for its treatment with MATLAB of these problems Fernando Casas zbMATH The vast compilation of applications makes this text a great resource for applied mathematicians engineers physicists and researchers Instructors will be pleased to find an aims and objectives section at the beginning of each chapter where the author outlines its content and provides student learning objectives Stanley R Huddy MAA Reviews   **Deep Learning for Physical Scientists** Edward O. Pyzer-Knapp,Matthew Benatan,2021-09-21 Discover the power of machine learning in the physical sciences with this one stop resource from a leading voice in the field Deep Learning for Physical Scientists Accelerating Research with Machine Learning delivers an

insightful analysis of the transformative techniques being used in deep learning within the physical sciences The book offers readers the ability to understand select and apply the best deep learning techniques for their individual research problem and interpret the outcome Designed to teach researchers to think in useful new ways about how to achieve results in their research the book provides scientists with new avenues to attack problems and avoid common pitfalls and problems Practical case studies and problems are presented giving readers an opportunity to put what they have learned into practice with exemplar coding approaches provided to assist the reader From modelling basics to feed forward networks the book offers a broad cross section of machine learning techniques to improve physical science research Readers will also enjoy A thorough introduction to the basic classification and regression with perceptrons An exploration of training algorithms including back propagation and stochastic gradient descent and the parallelization of training An examination of multi layer perceptrons for learning from descriptors and de noising data Discussions of recurrent neural networks for learning from sequences and convolutional neural networks for learning from images A treatment of Bayesian optimization for tuning deep learning architectures Perfect for academic and industrial research professionals in the physical sciences Deep Learning for Physical Scientists Accelerating Research with Machine Learning will also earn a place in the libraries of industrial researchers who have access to large amounts of data but have yet to learn the techniques to fully exploit that access   Philosophy of Artificial Intelligence and Its Place in Society Moutinho, Luiz,Cavique, Luís,Bigné, Enrique,2023-10-16 The early 2020s have been marked by a surge of interest in artificial intelligence AI and it has grown to be one of the hottest topics in computer science business technology research and educational technologies Despite AI winters in the 1970s and 1990s where interest and subsequently adequate funding for AI research ceased and as the technology and its usefulness become more perceptible often with brilliant results society is once again ready to investigate this powerful technology and its potential However a challenge arises when AI is called into question in an ethical context It is important that we explore how it can contribute to the resolution of ethical social and environmental issues and also to address growing concerns around AI developing emergent bias as well as the human application of AI for malicious purposes With recent AI based writing technologies concerns around academic integrity abound and challenge our perceptions of authenticity in writing A careful assessment of these technologies their usefulness and potential harm and strategic solutions to maintaining ethical standards and regulation of the technology is a necessity for the maintenance of civilized life amidst these tools Philosophy of Artificial Intelligence and Its Place in Society evaluates various aspects of artificial intelligence including the range of technologies their advantages and disadvantages and how AI systems operate Spanning from machine learning to deep learning philosophical insights societal concerns and the newest approaches to AI it helps to develop an appreciation for and breadth of knowledge across the full range of AI sub disciplines including neural networks evolutionary computation computer vision robotics expert systems speech processing and natural language processing Led Dr Luiz Moutinho of the University of

Suffolk in the United Kingdom who has won several awards for his academic literature this book provides academic market scholars researchers and students of philosophy sociology economics and education as well as corporate scientists with a comprehensive collection of core research elements concepts advances applications evidence and outcomes related to artificial intelligence

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Make Your Own Neural Network Introduction

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when a yellow mongrel comes for an uninvited stay with the family travis reluctantly adopts the dog after a series of scrapes involving raccoons snakes bears wild hogs and wolves travis grows to love and respect old yeller who comes to have a profound effect on the boy s life david mullich dmullich aol com

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