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Neural Networks For Complete Beginners Introduction For Neural Network Programming

***** Buy now (Will soon return to \$75.99 + Special Offer Below) ***** Free Kindle eBook for customers who purchase the print book from Amazon Are you thinking of learning more about Artificial Neural Network? This book has been written in layman's terms as an introduction to neural networks and their algorithms. Each algorithm is explained very

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easily for more understanding. Several Visual Illustrations and Examples Instead of tough math formulas, this book contains several graphs and images which detail all algorithms and their applications in all area of the real life. Why this book is different ? An Artificial Neural Network (ANN) is a computational model. It is based on the structure and functions of biological neural networks. It works like the way human (animal) brain processes information. It includes a large number of connected processing units called neurons that work together to process information.

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They also generate meaningful results from it. In this book, we will take you through the complete introduction to Artificial Neural Network, Artificial Neural Network Structure, layers of ANN, Applications, Algorithms, Tools and technology, Practical implementations and the benefits and limitations of ANN. This book takes a different approach that is based on providing simple examples of how ANN algorithms work, and building on those examples step by step to encompass the more complicated parts of the algorithms. Target Users The book designed for a

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variety of target audiences. The most suitable users would include: Beginners who want to approach ANN, but are too afraid of complex math to start Newbies in computer science techniques and ANN Professionals in data science and social sciences Professors, lecturers or tutors who are looking to find better ways to explain the content to their students in the simplest and easiest way Students and academicians, especially those focusing on neural networks and deep learning What's inside this book? What is Artificial Neural Network? Why Neural Networks? Major Variants of

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Artificial Neural Network Tools and Technologies
Practical implementations Major NN projects Open
sources resources Issues and Challenges
Applications of ANN Deep Learning: What & Why?
Our Future with Deep Learning Applied The Long-
Term Vision of Deep Learning Glossary of Some
Useful Terms in Neural Networks Frequently Asked
Questions Q: Is this book for me and do I need
programming experience? A: If you want to learn
more about deep learning with practical
applications, this book is for you. This book has
been written in layman's terms as an introduction

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to neural networks and their algorithms. Each algorithm is explained very easily for more understanding. No coding experience is required. Some practical examples is presented with Python but it is not the major part of the book. Q: Can I loan this book to friends? A: Yes. Under Amazon's Kindle Book Lending program, you can lend this book to friends and family for a duration of 14 days. Q: Does this book include everything I need to become a Neural Networks expert? A: Unfortunately, no. This book is designed for readers taking their first steps in neural networks and

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further learning will be required beyond this book to master all aspects of neural networks. Q: Can I have a refund if this book is not fitted for me? A: Yes, Amazon refund you if you aren't satisfied, for more information about the amazon refund service please go to the amazon help platform. will also be happy to help you if you send us an email at customer_service@datasciences-book.com.

"The manner in which computers are now able to mimic human thinking to process information is rapidly exceeding human capabilities in everything from chess to picking the winner of a song contest.

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In the modern age of machine learning, computers do not strictly need to receive an 'input command' to perform a task, but rather 'input data'. From the input of data they are able to form their own decisions and take actions virtually as a human world. But given it is a machine, it can consider many more scenarios and execute far more complicated calculations to solve complex problems. This is the element that excites data scientists and machine learning engineers the most. The ability to solve complex problems never before attempted. This book will dive in to

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introduce machine learning, and is ideal for beginners starting out in machine learning."--page 4 of cover.

Supercharge your Python skills and uncover the amazing benefits of machine learning with this complete guide. Are you a newcomer to the incredible programming language of Python? Are you searching for a practical beginner's introduction to the world of machine learning, artificial intelligence, and how you can create your own neural networks? Then it's time to try this book! Machine learning is the way of the future,

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and as a programmer, it's never been more important to understand this groundbreaking concept and begin creating your own neural networks. So how can you begin mastering machine learning even if you have only a basic understanding of Python? Packed with handy advice and detailed overviews, Python Machine Learning unveils the inner workings of neural networks and artificial intelligence in a way that even beginners can understand. With reference to basic terminology and concepts, training sets, algorithms, and so much more, this complete guide

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lets you begin creating your own networks even with the most basic knowledge of Python. Plus, you'll also find a wealth of tips for building good data sets and finding the right algorithm for all of your goals. Inside this comprehensive guide, you'll find: A Brilliant Introduction To The Essentials of Machine Learning and Its Surprising History Understanding The Basic Terminology and Ideas Behind Machine Learning Systems How To Pick The Right Classifiers, Variables, Metrics, Models, and More Practical Advice For Developing Your Own Machine Learning System 10 Must-Know Algorithms

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For Classification Tips and Tricks For Building Good Data Sets And Much More... Whether you want to begin programming for the first time, expand your skillsets into new areas, or simply create artificial intelligence as a hobby, Python Machine Learning shows you in plain English how to supercharge your Python skills and begin experimenting with this revolutionary programming concept. Buy now to begin creating neural networks today

Welcome to this book on Deep Learning and Neural Networks. We're going to be diving into what neural networks are, what the current neural

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networks out there do, with an API. Once we go over how everything works and how each of these new technologies work, we will go over the many different applications in general life and business. There have been a lot of news stories about how there are going to be self-driving cars, machines that make their own products, and many other different applications of neural networks that make it sound like a vastly complicated machine. However, the tool of the neural network is a very simple tool. When you hear about the applications that are being created that utilize neural networks,

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you are actually hearing about the amount of work that went behind making a neural network do something that's complicated but not a complicated neural network. Neural networks are extremely easy to understand as you will find throughout this book but the problem is that people have made them look complicated. Therefore, let's go ahead and demystify this subject so that you can get into the field of neural networks yourself and have some fun. Here's What's Included In This Book: What are Neural Networks? Biological Neural Networks Artificial Neural Networks Keras Model

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and Layers Different Deep Learning Algorithms
Benefits of Neural Networks Business Applications
of Neural Networks

Build Deep Neural Networks and Develop Strong
Fundamentals using Python's NumPy, and
Matplotlib (English Edition)

Machine Learning For Dummies

A Greater Foundation for Machine Learning
Engineering

Neural Network Projects with Python

3 Books in 1: A Complete Guide for Beginners,

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Python Coding for Ai, Neural Networks, & Machine Learning, Data Science/Analysis with Practical Exercises for Learners

A Complete and Phased Beginner's Guide to Learning and Understanding Machine Learning and Artificial Intelligence

KEY FEATURES ● Understand applications like reinforcement learning, automatic driving and image generation. ● Understand neural networks accompanied with figures and charts. ● Learn about determining coefficients and initial values of weights.

DESCRIPTION Deep learning helps you solve issues related to data problems as it has a vast array of

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mathematical algorithms and has capacity to detect patterns. This book starts with a quick view of deep learning in Python which would include definition, features and applications. You would be learning about perceptron, neural networks, Backpropagation. This book would also give you a clear insight of how to use Numpy and Matplotlib in deep learning models. By the end of the book, you'll have the knowledge to apply the relevant technologies in deep learning. **WHAT YOU WILL LEARN**

- To develop deep learning applications, use Python with few outside inputs.
- Study several ideas of profound learning and neural networks
- Learn how to determine coefficients of learning and weight values

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● Explore applications such as automation, image generation and reinforcement learning ● Implement trends like batch Normalisation, dropout, and Adam

WHO THIS BOOK IS FOR Deep Learning from the Basics is for data scientists, data analysts and developers who wish to build efficient solutions by applying deep learning techniques. Individuals who would want a better grasp of technology and an overview. You should have a workable Python knowledge is a required. NumPy knowledge and pandas will be an advantage, but that's completely optional.

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Backpropagation 6. Neural Network Training
Techniques 7. CNN 8. Deep Learning
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Programming Createspace Independent Publishing
Platform

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

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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

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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 AIMaster deep learning in Python by building and training neural networkMaster neural networks for regression and classificationDiscover convolutional neural networks for image recognitionLearn

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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. Are you fascinated about machine learning and AI and you don't know where to start? Have you ever heard people talking about Machine Learning but you only have a vague idea of the actual meaning? Do you want to understand how machine learning could simplify your daily life? Imagine a world where

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computing systems understand people and the world around us them to a point where they can notice patterns, collect data, interpret it and give recommendations to solve real world problems with high level of precision. It sounds like science fiction but it is happening in healthcare, agriculture, cyber security, facial recognition, targeting and retargeting customers in online advertising, recommending specific products, stories, videos, text etc., self-driving cars, real time pricing, predicting human behavior and much more. Now imagine you being one of the people behind the code; the people who get these advanced systems to work the way they do. Would it be a dream come true for you? By virtue

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that you are reading this, it is clear that you have some special liking for this advanced tech and would want to learn how you can be one of the people behind the code. Even if not, you probably want to be able to understand the inner workings of these systems. The concept may sound extremely out there and advanced but it won't be if you follow this guide, which takes an easy to follow, beginner friendly language to help you to understand the ins and outs of machine learning! Here is a summary of what this book will teach you: The basics of machine learning, including what it is, how machine learning has evolved over the years, the application of machine learning in today's world and the future of machine

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learning How machine learning is beneficial in today's world The different approaches to machine learning, including unsupervised, supervised, reinforcement learning method, semi-supervised machine learning and many others The concept of big data analysis, including what is big data, why big data is important, the application of big data in today's world as well as the different data analysis tools that you can use The link between big data and machine learning The different machine learning algorithms, including what machine-learning algorithms are and how and when the different learning algorithms are used The concept of artificial neural networks, including how they work, when to

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use neural networks and more How decision trees are used in machine learning, including what decision trees are (in respect to machine learning), how they work, how the decision tree is read, the different nodes in decision trees and when to use them The ins and outs of linear and logistic regression in machine learning, including what linear regression is, different types of regression, how linear regression works, how linear regression is used and much more And much more! Even if this is your first encounter with the concept of machine learning, this book will uncover everything you need to know to master machine learning and possibly get started in this field of advanced computing knowing

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very well what you are venturing into. And the good thing is that the book takes a beginner friendly approach to help you to apply what you learn right away! Would You Like To Know More? Click Buy Now With 1-Click or Buy Now to get started!

Neural Networks for Complete Beginners

Artificial Neural Networks

Deep Learning and Artificial Intelligence: A
Beginners' Guide to Neural Networks and Deep
Learning

Machine Learning for Beginners

The Hallmarks of the Great Beyond in Pytorch, R,
Tensorflow, and Python

Artificial Intelligence with Python

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An Easy-To-Use Manual for Understanding Artificial
Neural Network Programming

If you are searching for resources to start studying Artificial Intelligence then you are in the right place. The author discusses all the things step by step in this short and cheap textbook for beginners. Artificial intelligence is one of the most important breakthroughs in today's world. Experts from various industries study its capabilities and discover new methods of its application. If you want to know about AI, so this book is the perfect one

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***to start Get your copy now!!!Book
ObjectivesThis book is about Artificial
Intelligence. The author wrote the book with
the following objectives: To help you
understand what artificial intelligence is. To
help you learn the various approaches to
artificial intelligence. To help you appreciate
the power of artificial intelligence and how it
has revolutionized the various sectors in the
world. To equip you with Python
programming skills good for artificial
intelligence. To help you understand the***

future of artificial intelligence and its expected impact on the various sectors in the world. Who this Book is for? This book as written with the following groups of people in mind: Any individual in need of learning the basics and theories of artificial intelligence. Any individual who needs to understand the various practical approaches to artificial intelligence. Anyone who needs to learn how artificial intelligence has impacted the world and how it will impact the world in the future. Anyone who needs to learn Python

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programming skills good for artificial intelligence. RequirementsThe author expects you to have a computer installed with the Python interpreter. **What you will learn?**
Basics of AI Intelligent Systems Intelligent Agents and Environments Problem Solving Through Searching Machine Learning Deep Learning Convolutional Networks Natural Language Processing Fuzzy Logic Systems Knowledge Representation The future of AI
The author begins by introducing you to the basics of artificial intelligence. The aim is to

help you know what artificial intelligence is, its goals and its components. Intelligent systems, intelligent agents and their environments have been discussed. You will know what intelligent systems/agents are and where they are applied. The author has also discussed the various challenges intelligent systems/agents face when acting on their environments. Searching is a common technique of solving problems in artificial intelligence. The various search algorithms have been discussed. Machine learning is a

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very important field in artificial intelligence. This has been discussed in detail. You will also learn how to implement various machine learning algorithms in Python programming language. Deep learning and artificial neural networks have been explored in detail. You will learn how artificial neural networks work. The various applications of deep learning have been discussed. The process of creating artificial neural networks in the Python programming language has been discussed. Other topics that have been discussed include

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convolutional neural networks, natural language processing, knowledge representation, and fuzzy logic. The author has finally done a prediction to help you know how artificial intelligence is expected to revolutionize the various sectors in the world.
☐☐ Buy the Paperback Version of this Book and get the Kindle Book version for FREE ☐☐ Step into the fascinating world of data science.. You to participate in the revolution that brings artificial intelligence back to the heart of our society, thanks to data scientists. Data

science consists in translating problems of any other nature into quantitative modeling problems, solved by processing algorithms. This book, designed for anyone wishing to learn Deep Learning. This book presents the main techniques: deep neural networks, able to model all kinds of data, convolution networks, able to classify images, segment them and discover the objects or people who are there, recurring networks, it contains sample code so that the reader can easily test and run the programs. On the program: Deep

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***learning Neural Networks and Deep Learning
Deep Learning Parameters and Hyper-
parameters Deep Neural Networks Layers
Deep Learning Activation Functions
Convolutional Neural Network Python Data
Structures Best practices in Python and Zen
of Python Installing Python Python These are
some of the topics covered in this book:
fundamentals of deep learning fundamentals
of probability fundamentals of statistics
fundamentals of linear algebra introduction
to machine learning and deep learning***

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***fundamentals of machine learning
fundamentals of neural networks and deep
learning deep learning parameters and hyper-
parameters deep neural networks layers deep
learning activation functions convolutional
neural network Deep learning in practice (in
jupyter notebooks) python data structures
best practices in python and zen of python
installing python The following are the
objectives of this book: To help you
understand deep learning in detail To help
you know how to get started with deep***

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learning in Python by setting up the coding environment. To help you transition from a deep learning Beginner to a Professional. To help you learn how to develop a complete and functional artificial neural network model in Python on your own. And more Get this book now to learn more about -- Deep learning in Python by setting up the coding environment.!

This book covers the fundamentals in designing and deploying techniques using deep architectures. It is intended to serve as a

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beginner's guide to engineers or students who want to have a quick start on learning and/or building deep learning systems. This book provides a good theoretical and practical understanding and a complete toolkit of basic information and knowledge required to understand and build convolutional neural networks (CNN) from scratch. The book focuses explicitly on convolutional neural networks, filtering out other material that co-occur in many deep learning books on CNN topics.

The goal of machine learning is to program computers to use example data or past experience to solve a given problem. Many successful applications of machine learning exist already, including systems that analyze past sales data to predict customer behavior, optimize robot behavior so that a task can be completed using minimum resources, and extract knowledge from bioinformatics data. Introduction to Machine Learning is a comprehensive textbook on the subject, covering a broad array of topics not usually

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included in introductory machine learning texts. Subjects include supervised learning; Bayesian decision theory; parametric, semi-parametric, and nonparametric methods; multivariate analysis; hidden Markov models; reinforcement learning; kernel machines; graphical models; Bayesian estimation; and statistical testing. Machine learning is rapidly becoming a skill that computer science students must master before graduation. The third edition of Introduction to Machine Learning reflects this shift, with added

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support for beginners, including selected solutions for exercises and additional example data sets (with code available online). Other substantial changes include discussions of outlier detection; ranking algorithms for perceptrons and support vector machines; matrix decomposition and spectral methods; distance estimation; new kernel algorithms; deep learning in multilayered perceptrons; and the nonparametric approach to Bayesian methods. All learning algorithms are explained so that students can easily move

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from the equations in the book to a computer program. The book can be used by both advanced undergraduates and graduate students. It will also be of interest to professionals who are concerned with the application of machine learning methods. Concepts, Tools and Techniques Explained for Absolute Beginners
Mastering Deep Learning Fundamentals with Python
A Step-by-Step Guide to Learning and Mastering Machine Learning for Absolute

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***Beginners with Real Examples
For Absolute Beginners. the Ultimate
Beginners Guide for Algorithms, Neural
Networks, Random Forests and Decision
Trees***

A Concise Guide

Neural Networks

***The Ultimate Guide for Absolute Beginners
with Steps to Implement Artificial Neural
Networks with Real Examples (Useful Python
Tools Eg. Anaconda, Jupiter Notebook)***

Easily Boost Your Skills In Python Programming &

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Become A Master In Deep Learning & Data Analysis! ?

Python is an interpreted, high-level, general-purpose programming language that emphasizes code readability with its notable use of significant whitespace. What makes Python so popular in the IT industry is that it uses an object-oriented approach, which enables programmers to write clear, logical code for all types of projects, whether big or small. Hone your Python Programming skills and gain a sharp edge over other programmers the EASIEST way possible... with this practical beginner's guide! In his 3-in-1 Python crash course for beginners, Anthony Adams gives novices like you simple, yet efficient tips and tricks

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to become a MASTER in Python coding for artificial intelligence, neural networks, machine learning, and data science/analysis! Here's what you'll get: ? Highly innovative ways to boost your understanding of Python programming, data analysis, and machine learning ? Quickly and effectively stop fraud with machine learning ? Practical and efficient exercises that make understanding Python quick & easy And so much more! As a beginner, you might feel a bit intimidated by the complexities of coding. Add the fact that most Python Programming crash course guides make learning harder than it has to be! ? With the help of this 3-in-1 guide, you

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will be given carefully sequenced Python Programming lessons that'll maximize your understanding, and equip you with all the skills for real-life application! ? Thrive in the IT industry with this comprehensive Python Programming crash course! ? Scroll up, Click on "Buy Now", and Start Learning Today!

*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*

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*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*

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*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:*

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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

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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

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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. Artificial intelligence is the rage today! While you may find it difficult to understand the most recent

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advancements in AI, it simply boils down to two most celebrated developments: Machine Learning and Deep Learning. In 2020, Deep Learning is leagues ahead because of its supremacy when it comes to accuracy, especially when trained with enormous amounts of data. Deep Learning, essentially, is a subset of Machine Learning, but it's capable of achieving tremendous power and flexibility. And the era of big data technology presents vast opportunities for incredible innovations in deep learning. How Is This Book Different? This book gives equal importance to the theoretical as well as practical aspects of deep learning. You will understand

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how high-performing deep learning algorithms work. In every chapter, the theoretical explanation of the different types of deep learning techniques is followed by practical examples. You will learn how to implement different deep learning techniques using the TensorFlow Keras library for Python. Each chapter contains exercises that you can use to assess your understanding of the concepts explained in that chapter. Also, in the Resources, the Python notebook for each chapter is provided. The key advantage of buying this book is you get instant access to all the extra content presented with this book--Python codes, references, exercises, and PDFs--on the publisher's

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website. You don't need to spend an extra cent. The datasets used in this book are either downloaded at runtime or are available in the Resources/Datasets folder. Another advantage is a detailed explanation of the installation steps for the software that you will need to implement the various deep learning algorithms in this book is provided. That is, you get to experiment with the practical aspects of Deep Learning right from page 1. Even if you are new to Python, you will find the crash course on Python programming language in the first chapter immensely useful. Since all the codes and datasets are included with this book, you only need access to a

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computer with the internet to get started. The topics covered include: Python Crash Course Deep Learning Prerequisites: Linear and Logistic Regression Neural Networks from Scratch in Python Introduction to TensorFlow and Keras Convolutional Neural Networks Sequence Classification with Recurrent Neural Networks Deep Learning for Natural Language Processing Unsupervised Learning with Autoencoders Answers to All Exercises Click the BUY button and download the book now to start your Deep Learning journey. This book is an exploration of an artificial neural network. It has been created to suit even the complete

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beginners to artificial neural networks. The first part of the book is an overview of artificial neural networks so as to help the reader understand what they are. You will also learn the relationship between the neurons which make up the human brain and the artificial neurons. Artificial neural networks embrace the concept of learning which is common in human beings. This book guides you to understand how learning takes place in artificial neural networks. The back-propagation algorithm, which is used for training artificial neural networks, is discussed. The book also guides you through the architecture of an artificial neural network. The various types of artificial

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neural networks based on their architecture are also discussed. The book guides you on the necessary steps for one to build a neural network. The perceptron, which is a type of an artificial neural network, is explored, and you will explore how to implement one programmatically. The following topics are discussed in this book: -What is a Neural Network? -Learning in Neural Networks -The Architecture of Neural Networks -Building Neural Networks -The Perceptron

*Machine Learning for Absolute Beginners
An Introduction for Scientists and Engineers
The Absolute Ultimate Guide for Beginners To Expert and*

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*Step By Step Guide to Understand Python Programming
Concepts*

Neural Network for Beginners

A Comprehensive Introduction of Deep Learning

Fundamentals for Beginners to Understanding

*Frameworks, Neural Networks, Large Datasets, and
Creative Applications with Ease*

An Introduction for Beginners

*Beginner's Guide to Convolutional Neural Networks in
Python*

☐☐The Best Deep Learning Book for Beginners☐☐ If you are
looking for a complete beginners guide to learn deep

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learning with examples, in just a few hours, then you need to continue reading. This book delves into the basics of deep learning for those who are enthusiasts concerning all things machine learning and artificial intelligence. For those who have seen movies which show computer systems taking over the world like, Terminator, or benevolent systems that watch over the population, i.e. Person of Interest, this should be right up your alley. This book will give you the basics of what deep learning entails. That means frameworks used by coders and significant components and tools used in deep learning, that enable facial recognition, speech recognition, and virtual assistance. Yes, deep learning provides the tools through which systems like Siri became possible. ☐☐ Grab your copy

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today and learn ☐☐ ♦ Deep learning utilizes frameworks which allow people to develop tools which are able to offer better abstraction, along with simplification of hard programming issues. TensorFlow is the most popular tool and is used by corporate giants such as Airbus, Twitter, and even Google. ♦ The book illustrates TensorFlow and Caffe2 as the prime frameworks that are used for development by Google and Facebook. Facebook illustrates Caffe2 as one of the lightweight and modular deep learning frameworks, though TensorFlow is the most popular one, considering it has a lot of popularity, and thus, a big forum, which allows for assistance on main problems. ♦ The book considers several components and tools of deep learning such as the neural networks; CNNs, RNNs, GANs, and auto-

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encoders. These algorithms create the building blocks which propel deep learning and advance it. ♦ The book also considers several applications, including chatbots and virtual assistants, which have become the main focus for deep learning into the future, as they represent the next frontier in information gathering and connectivity. The Internet of Things is also represented here, as deep learning allows for the integration of various systems via an artificial intelligence system, which is already being used for the home and car functions. ♦ And much more... The use of data science adds a lot of value to businesses, and we will continue to see the need for data scientists grow. This book is probably one of the best books for beginners. It's a step-by-step guide for any person who

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wants to start learning deep learning and artificial intelligence from scratch. When data science can reduce spending costs by billions of dollars in the healthcare industry, why wait to jump in? If you want to get started on deep learning and the concepts that run artificial technologies, don't wait any longer. Scroll up and click the buy now button to get this book today!

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

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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

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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
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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
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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

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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 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

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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 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

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

Do you want to learn how machine learning and neural networks work quickly and simply? Do you want to know how to build a machine learning model, and you have no programming skills? Do you want to get started with learning data science? This book is going to guide you to the basics and the principles behind machine learning. Machine learning is an active research domain and

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includes several different approaches. This book is going to help you understand the various methods of machine learning and neural networks. It will guide you through the steps you need to build a machine learning model. Machine learning implies programming. This book will teach you Python programming. This book does not require any pre-programming skills. It will help to get you started in Python programming, as well as how to use Python libraries to analyze data and apply machine learning. Overall, this book is a go-to guide for getting started in machine learning modeling using Python programming. Once you get through the book, you will be able to develop your machine learning models using Python. Through this book, you will learn: - Principles of machine learning - Types of machine

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learning: supervised, unsupervised, semi-supervised, and reinforcement learning - Advantages of each type of machine learning - Principle and types of neural networks - Steps to develop and fit artificial neural network model - Getting started and installing Python - Tools and platforms for Python programming - How to use pandas, NumPy and matplotlib Python libraries - How to develop a simple linear and logistic machine learning model - How to build and train a multi-layer artificial neural network two ways: from scratch and using the Python libraries Even if you don't have any background in machine learning and Python programming, this book will give you the tools to develop machine learning models.

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Introduction for Neural Network Programming

Deep Learning for Beginners

A Plain English Introduction

The Complete Beginners' Guide to Artificial Intelligence

Make Your Own Neural Network: An In-Depth Visual

Introduction for Beginners

Convolutional Neural Networks in Python

So, what is the deal with intelligent machines? Will they soon decide on things such as copyright infringement? How about self-driving trucks and cars? What kind of impact will smart machines have on society and the future of human jobs?

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

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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

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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.

Machine Learning Complete Beginners Guide For Neural Networks, Algorithms, Random Forests and Decision Trees Made Simple Most people encounter machine learning algorithms every day, though they likely don't stop to think about it. These are the

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programs that serve as the backbone of self-learning software. You'll find them at use in everything from Google's self-driving cars to Amazon's Alexa to the personalized recommendations on streaming services like Netflix. Here is a preview of what you'll learn: What machine learning is and how it's used in the real world The frameworks and languages used to write the algorithms An in-depth exploration of the most popular algorithms Advice for choosing and implementing an algorithm How to interpret the results and put them to use There are a lot of different ways that you can use these algorithms. They can help make your company more efficient, identify new customers and markets, or improve your ability to predict market trends. Knowledge is the first step to get you started, and this book is designed to get you up to speed. Download your copy of "Machine Learning" by scrolling up and clicking "Buy Now

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Aladdin from "The Arabian Nights" had a magic lamp that fulfilled

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his every wish when rubbed. Today we have a smartphone that serves as a window to a whole universe of knowledge, entertainment and even wise personal assistants, such as Siri - all we have to do is rub the screen. Aladdin's lamp was powered by a genie, but what powers Siri? Neural networks. It's an astounding concept that tries to mimic the way living brains work by amalgamating human and machine ways of thinking. The goal of this book is to present the reader with a digestible, readable explanation of neural networks while keeping the underlying concepts intact. The reader will acquire fundamental knowledge of neural networks through loosely related chapters that nonetheless reference terms and ideas mentioned throughout the book. The book itself isn't meant to be strictly academic, but a blend of colloquial and technical that brings this exciting, yet eerie, topic to the widest swath of the general

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public. There is a lot of coding and math behind neural networks, but the reader is presumed to have no prior knowledge or interest in either, so the concepts are broken down and elaborated on as such. Each chapter is made as standalone as possible to allow the reader to skip back and forth without getting lost, with the glossary at the very end serving as a handy summary. Where possible, references have been included to support the presented conclusions and encourage the reader to scrutinize the traditional media in search of clues. Neural Networks: An Essential Beginners Guide to Artificial Neural Networks and their Role in Machine Learning and Artificial Intelligence cover topics such as: Programming a smart(er) computer Composition Giving neural networks legs to stand on The magnificent wetware Personal assistants Tracking users in the real world Self-driving neural networks Taking everyone's job Quantum

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The Complete Beginner's Guide to Understand Machine Learning
with Python from Beginner to Expert

The Complete Beginners Guide

A Theory of Statistical Separability in Cognitive Systems (Project
Para)

Deep Learning Fundamentals

An Essential Beginner's Guide to AI, Machine Learning, Robotics,
The Internet of Things, Neural Networks, Deep Learning,

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Reinforcement Learning, and Our Future
Machine Learning With Python

Theoretical results suggest that in order to learn the kind of complicated functions that can represent high-level abstractions (e.g. in vision, language, and other AI-level tasks), one may need deep architectures. Deep architectures are composed of multiple levels of non-linear operations, such as in neural nets with many hidden layers or in complicated propositional formulae re-using many sub-formulae. Searching the parameter space of deep architectures is a difficult task, but learning algorithms such as those for Deep Belief

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Networks have recently been proposed to tackle this problem with notable success, beating the state-of-the-art in certain areas. This paper discusses the motivations and principles regarding learning algorithms for deep architectures, in particular those exploiting as building blocks unsupervised learning of single-layer models such as Restricted Boltzmann Machines, used to construct deeper models such as Deep Belief Networks.

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Illustrations and Examples This book and the accompanying examples, you would be well suited to tackle problems, which pique your interests using machine learning and deep learning models. Instead of tough math formulas, this book contains several graphs and images. Book Objectives Have an appreciation for deep learning and an understanding of their fundamental principles. Have an elementary grasp of deep learning concepts and algorithms. Have achieved a technical background in deep learning and neural networks. Target Users The most suitable users would include: Anyone who is intrigued by how algorithms

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arrive at predictions but has no previous knowledge of the field. Software developers and engineers with a strong programming background but seeking to break into the field of machine learning. Seasoned professionals in the field of artificial intelligence and machine learning who desire a bird's eye view of current techniques and approaches. What's Inside This Book? Introduction Teaching Approach What is Artificial Intelligence, Machine Learning and Deep Learning? Mathematical Foundations of Deep Learning Machine Learning Fundamentals Fully Connected Neural Networks Convolutional Neural Networks Recurrent

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Neural Networks Generative Adversarial Networks Deep Reinforcement Learning Introduction to Deep Neural Networks with Keras Sources & References Frequently Asked Questions Q: Is this book for me and do I need programming experience? A: if you want to smash deep learning from scratch, this book is for you. No programming experience is required. The present only the fundamentals concepts and algorithms of deep learning. It ll be a good introduction for beginners. Q: Can I loan this book to friends? A: Yes. Under Amazon's Kindle Book Lending program, you can lend this book to friends and family for a duration of 14 days. Q: Does this book

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Beginners Who Want to Understand Applications, Artificial Intelligence, Data Mining, Big Data and More Neural Networks: An Essential Beginners Guide to Artificial Neural Networks and their Role in Machine Learning and Artificial Intelligence Deep Learning: An Essential Guide to Deep Learning for Beginners Who Want to Understand How Deep Neural Networks Work and Relate to Machine Learning and Artificial Intelligence Every day, someone is putting down a book on machine learning and giving up on learning about this revolutionary topic. How many of them miss out on furthering their career, and perhaps even the progress of

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our species...without even realizing? You see, most beginners make the same mistake when first delving into the topic of machine learning. They start off with a resource containing too many unrelatable facts, math, and programming lingo that will put them to sleep rather than ignite their passion. But that is about to change... This new book on machine learning will explain the concepts, methods and history behind machine learning, including how our computers became vastly more powerful but infinitely stupider than ever before and why every tech company and their grandmother want to keep track of us 24/7, siphoning data points from our

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electronic devices to be crunched by their programs that then become virtual crystal balls, predicting our thoughts before we even have them. Most of the book reads like science fiction because in a sense it is, far beyond what an average person would be willing to believe is happening. Here are some of the topics that are discussed in part 1 of this book: What is machine learning? What's the point of machine learning? History of machine learning Neural networks Matching the human brain Artificial Intelligence AI in literature Talking, walking robots Self-driving cars Personal voice-activated assistants Data mining Social networks Big Data Shadow

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profiles Biometrics Self-replicating machines And much, much more! Here are some of the topics that are discussed in part 2 of this book: Programming a smart(er) computer Composition Giving neural networks legs to stand on The magnificent wetware Personal assistants Tracking users in the real world Self-driving neural networks Taking everyone's job Quantum leap in computing Attacks on neural networks Neural network war Ghost in the machine No backlash And Much, Much More Here are some of the topics that are discussed in part 3 of this book: Improving the Scientific Method How It All Started Appeasing the Rebellious Spirits Quantum

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build a solid foundation in DLBook Description With information on the web exponentially increasing, it has become more difficult than ever to navigate through everything to find reliable content that will help you get started with deep learning. This book is designed to help you if you're a beginner looking to work on deep learning and build deep learning models from scratch, and you already have the basic mathematical and programming knowledge required to get started. The book begins with a basic overview of machine learning, guiding you through setting up popular Python frameworks. You will also understand how to prepare data by cleaning and

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preprocessing it for deep learning, and gradually go on to explore neural networks. A dedicated section will give you insights into the working of neural networks by helping you get hands-on with training single and multiple layers of neurons. Later, you will cover popular neural network architectures such as CNNs, RNNs, AEs, VAEs, and GANs with the help of simple examples, and learn how to build models from scratch. At the end of each chapter, you will find a question and answer section to help you test what you've learned through the course of the book. By the end of this book, you'll be well-versed with deep learning concepts and have the knowledge you need to use

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specific algorithms with various tools for different tasks.

What you will learn Implement recurrent neural networks (RNNs) and long short-term memory (LSTM) for image classification and natural language processing

tasks Explore the role of convolutional neural networks (CNNs) in computer vision and signal processing Discover the ethical implications of deep learning

modeling Understand the mathematical terminology associated with deep learning Code a generative

adversarial network (GAN) and a variational autoencoder (VAE) to generate images from a learned

latent space Implement visualization techniques to

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compare AEs and VAEs Who this book is for This book is for aspiring data scientists and deep learning engineers who want to get started with the fundamentals of deep learning and neural networks. Although no prior knowledge of deep learning or machine learning is required, familiarity with linear algebra and Python programming is necessary to get started.

Theory and Applications of Artificial Neural Networks, CNN, RNN, LSTM and Autoencoders Using TensorFlow 2.0- Contains Exercises with Solutions and Hands-On Projects

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Learning, Machine Learning Cloud, Machine Learning Services

The book provides foundations of machine learning and algorithms with a road map to deep learning, genesis of machine learning, installation of Python, supervised machine learning algorithms and implementations in Python or R, unsupervised machine learning algorithms in Python or R including natural language processing techniques and algorithms, Bayesian statistics, origins of deep learning, neural networks, and all the deep learning

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algorithms with some implementations in TensorFlow and architectures, installation of TensorFlow, neural net implementations in TensorFlow, Amazon ecosystem for machine learning, swarm intelligence, machine learning algorithms, in-memory computing, genetic algorithms, real-world research projects with supercomputers, deep learning frameworks with Intel deep learning platform, Nvidia deep learning frameworks, IBM PowerAI deep learning frameworks, H2O AI deep learning framework, HPC with deep learning frameworks, GPUs and

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need to build a machine learning model. Machine learning implies programming. This book will teach you Python programming. This book does not require any pre-programming skills. It will help to get you started in Python programming, as well as how to use Python libraries to analyze data and apply machine learning. Overall, this book is a go-to guide for getting started in machine learning modeling using Python programming. Once you get through the book, you will be able to develop your own machine learning models using Python. Through this

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book, you will learn: - Principles of machine learning - Types of machine learning: supervised, unsupervised, semi-supervised, and reinforcement learning - Advantages of each type of machine learning - Principle and types of neural networks - Steps to develop and fit artificial neural network model - Getting started and installing Python - Tools and platforms for Python programming - How to use pandas, NumPy and matplotlib Python libraries - How to develop a simple linear and logistic machine learning model - How to develop and train a multi-

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now a reality. Machines can finally think. Maybe not quite as complex as the human brain, but more than enough to make everyone's life a lot easier. Artificial neural networks, based on the neurons found in the human brain give machines a 'brain'. Patterned just like biological neurons, these software or hardware are a variety of the deep learning technology. With their help you can make your computer learn by feeding it data, which will then be generated as the output you desire. It is they to thank for the nanoseconds in which computers operate. It may be science, but

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it is not actually rocket science. Everyone can learn how to take advantage of the progressed technology of today, get inside the 'brain' of the computers, and train them to perform the desired operations. They have been used in many different industries, and you can rest assured that you will find the perfect purpose for your own neural network. The best part about this book is that it doesn't require a college degree. Your high school math skills are quite enough for you to get a good grasp of the basics and learn how to build an artificial neural network.

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From non-mathematical explanations to teaching you the basic math behind the ANNs and training you how to actually program one, this book is the most helpful guide you will ever find.

Carefully designed for you, the beginner, this guide will help you become a proud owner of a neural network in no time. Here's a Sneak Peak to What You'll Discover Inside this Book: The 6 unique benefits of neural networks The difference between biological and artificial neural networks And inside look into ANN (Artificial Neural Networks) The industries ANN is used in

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How to teach neural networks to perform specific commands The different types of learning modalities (e.g. Hebbian Learning, unsupervised learning, supervised learning etc.) The architecture of ANN Basic math behind artificial neurons Simple networks for pattern classification The Hebb Rule How to build a simple neural network code The backpropogation algorithm and how to program it And much, much more! There's a lot more inside this book we'll cover, so be prepared. I've made to lucidly explain everything I cover so that

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there's zero confusion! Download this book today and discover all the intricate details of building your very own Neural Network

Neural Networks for Beginners

The ultimate guide to using Python to explore the true power of neural networks through six projects

A beginner's guide to getting up and running with deep learning from scratch using Python

The Perceptron

Introduction to Machine Learning

Machine Learning with Python

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Convolutional Neural Networks in Visual Computing

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 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

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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 cognitive science, psychology,

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computer science and electrical engineering.

Do you want to understand Neural Networks and learn everything about them but it looks like it is an exclusive club? Are you fascinated by Artificial Intelligence but you think that it would be too difficult for you to learn? If you think that Neural Networks and Artificial Intelligence are the present and, even more, the future of technology, and you want to be part of it... well you are in the right place, and you are looking at the right book. If you are reading these lines you have probably already noticed this: Artificial Intelligence is all around you. Your smartphone that

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suggests you the next word you want to type, your Netflix account that recommends you the series you may like or Spotify's personalised playlists. This is how machines are learning from you in everyday life. And these examples are only the surface of this technological revolution. Either if you want to start your own AI enterprise, to empower your business or to work in the greatest and most innovative companies, Artificial Intelligence is the future, and Neural Networks programming is the skill you want to have. The good news is that there is no exclusive club, you can easily (if you commit, of course) learn

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that deep learning and machine learning specialists, along with data science practitioners, are the most sought-after talent in the technology world. However, it's a common misconception that you need to study lots of mathematics, statistics, and complex algorithms for learning these technologies. It's like believing that you must learn the working of a combustion engine before you learn how to drive a car. A basic know-how of the internal working of the engine is of course an added advantage, but it's not mandatory. Similarly, this course is a perfect balance between learning the basic deep learning concepts

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and implementing the built-in deep learning classes and functions from the Keras library using the Python programming language. These classes, functions and APIs are just like the control pedals of a car engine, which you can use to build an efficient deep-learning model. This is a basic-to-advanced crash course in deep learning, neural networks, and convolutional neural networks using Keras and Python. It'll help you skill up to meet the demand of the tech world and skyrocket your career prospects. Downloading the example code for this course: You can download the example code files for this course

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on GitHub at the following link: <https://github.com/PacktPublishing/Deep-Learning-and-Neural-Networks-using-Python--Keras-The-Complete-Beginners-Guide>
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Machine Learning

Python Programming, Deep Learning

An Essential Beginners Guide to Artificial Neural
Networks and Their Role in Machine Learning and
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within science and engineering. Closely based around a well-established undergraduate course, this pedagogical text provides a solid understanding of the key aspects of modern machine learning with artificial neural networks, for students in physics, mathematics, and engineering. Numerous exercises expand and reinforce key concepts within the book and allow students to hone their programming skills. Frequent references to current research develop a detailed perspective on the state-of-the-art in machine

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learning research.

Are you thinking of learning more techniques and algorithms in artificial neural networks? Then you have landed in the right place. The overall aim of this book is to give you an overview of the important concepts, methods and techniques used in artificial neural networks. Artificial neural networks are also generally referred to as neural networks. This signal processing model is based on a biological neural network. The theory test observations and later experiments of the

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central nervous system of the human brain system were the motivation for the development of neural networks. This book is about basic neural network architectures and the learning rules. Every effort has been made to present the material in simple and regular manner so that it can be read and used without difficulty. In final the chapters, case studies are provided to assist in the understanding of the workings of neural networks. Since this literature is written about neural networks in particular, our choice of

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topic is guided by one standard. We want to present the most useful picture of neural networks from the simple to a complex structure. Researchers from different disciplines are designing artificial neural networks to solve the problems of pattern recognition, prediction, optimization, associative memory, and control. A neural network is a complex architecture that consists of a network of interconnected neurons, and is a great alternative for solving complex problems when compared to

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conventional approaches. It incorporates a number of fundamental concepts. Book Organisation The organization of the book offers a great deal of flexibility for use in graduate level of neural network. Introduction, History and Background of neural network. Basic concepts to build Artificial Neural Networks. Extensive Study on Artificial Neural Network Architecture. Backpropagation Algorithm and its variant. Others Networks Algorithms Extensive literature covering every aspect of artificial neural network. Book

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Objectives The main purpose of this book is to provide the reader with the most fundamental knowledge on artificial neural networks so that they can understand what these are all about. This book will help you: Have an appreciation for neural networks and an understanding of their fundamental principles. Have an elementary grasp of neural network concepts and terms, which includes the ability to understand the algorithms. Have achieve a technical background in neural networks

Target Users The book designed for a variety

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of target audiences. The most suitable users would include: Newbies in computer science techniques and neural networks Professionals in data science and social sciences Professors, lecturers or tutors who are looking to find better ways to explain the content to their students in the simplest and easiest way Students and academicians, especially those focusing on neural networks and deep learning

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machine learning? How machine learning works? Should I use a machine learning model or another approach to solve my problem? How do I implement machine learning to my problem? What are the machine learning methods I can use for my problem? How do I know my machine learning model is efficient? Are you wondering all these questions and hesitate on how to start with machine learning? The object of this book is to answer all of these questions. This book will give an initiation to machine learning methods. In

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