

DEEP LEARNING with Python

SECOND EDITION

François Chollet



MANNING

Deep Learning Python S Ebook

Chao Pan



Deep Learning Python S Ebook:

Deep Reinforcement Learning in Action Alexander Zai, Brandon Brown, 2020-04-28 Summary Humans learn best from feedback we are encouraged to take actions that lead to positive results while deterred by decisions with negative consequences This reinforcement process can be applied to computer programs allowing them to solve more complex problems that classical programming cannot Deep Reinforcement Learning in Action teaches you the fundamental concepts and terminology of deep reinforcement learning along with the practical skills and techniques you ll need to implement it into your own projects Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the technology Deep reinforcement learning AI systems rapidly adapt to new environments a vast improvement over standard neural networks A DRL agent learns like people do taking in raw data such as sensor input and refining its responses and predictions through trial and error About the book Deep Reinforcement Learning in Action teaches you how to program AI agents that adapt and improve based on direct feedback from their environment In this example rich tutorial you ll master foundational and advanced DRL techniques by taking on interesting challenges like navigating a maze and playing video games Along the way you ll work with core algorithms including deep Q networks and policy gradients along with industry standard tools like PyTorch and OpenAI Gym What s inside Building and training DRL networks The most popular DRL algorithms for learning and problem solving Evolutionary algorithms for curiosity and multi agent learning All examples available as Jupyter Notebooks About the reader For readers with intermediate skills in Python and deep learning About the author Alexander Zai is a machine learning engineer at Amazon AI Brandon Brown is a machine learning and data analysis blogger Table of Contents PART 1 FOUNDATIONS 1 What is reinforcement learning 2 Modeling reinforcement learning problems Markov decision processes 3 Predicting the best states and actions Deep Q networks 4 Learning to pick the best policy Policy gradient methods 5 Tackling more complex problems with actor critic methods PART 2 ABOVE AND BEYOND 6 Alternative optimization methods Evolutionary algorithms 7 Distributional DQN Getting the full story 8 Curiosity driven exploration 9 Multi agent reinforcement learning 10 Interpretable reinforcement learning Attention and relational models 11 In conclusion A review and roadmap

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teaches you the why of deep learning and will inspire you to explore further All you need is basic familiarity with computer programming and high school math the book will cover the rest After an introduction to Python you ll move through key topics like how to build a good training dataset work with the scikit learn and Keras libraries and evaluate your models performance You ll also learn How to use classic machine learning models like k Nearest Neighbors Random Forests and Support Vector Machines How neural networks work and how they re trained How to use convolutional neural networks How to develop a successful deep learning model from scratch You ll conduct experiments along the way building to a final case study that incorporates everything you ve learned The perfect introduction to this dynamic ever expanding field Practical Deep Learning will give you the skills and confidence to dive into your own machine learning projects

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text Exercises appear at the end of each section including basic ones designed to test comprehension and computational skills while others range over proofs not supplied in the text practical computations additional theoretical results and further developments in the subject The Students Solutions Manual may be accessed from GitHub Instructors may apply for access to the Instructors Solutions Manual from the link supplied on the text s Springer website The book can be used in a junior or senior level course for students majoring in mathematics with a focus on applications as well as students from other disciplines who desire to learn the tools of modern applied linear algebra and optimization It may also be used as an introduction to fundamental techniques in data science and machine learning for advanced undergraduate and graduate students or researchers from other areas including statistics computer science engineering biology economics and finance and so on

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Human-Machine Interface Technology Advancements and Applications Ravichander Janapati,Usha Desai,Shrirang Ambaji Kulkarni,Shubham Tayal,2023-09-22 Human Machine Interface Technology Advancements and Applications focuses on analysis design and evaluation perspectives in HMI technological breakthroughs and applications It covers a wide range of ideas methodologies approaches and instruments to give the reader a thorough understanding of the field s current academic and industry practice and debate Physical cognitive social and emotional factors are all considered in the work which is exemplified by key application fields such as aerospace automobile medicine and defense This book covers AI and machine learning methodologies as well as biological signals and HMI applications Nanotechnology user interface design and interactive systems are also featured The MATLAB approach to signal processing applications is also included This book discusses advances in the field of human machine interfaces and

provides practical knowledge in biomedical signal processing AI and machine learning It discusses augmented reality virtual reality based HMI applications It examines advances in nanotechnology user interface design and interactive systems This book is intended to serve as a research guide that will both inform readers about the fundamentals of HMI from academic and industrial perspectives and provide a glimpse into how human centered designers such as engineers and human factors specialists will attempt to design and develop human machine systems in the future

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to build its own deep learning library from scratch instead of using existing deep learning libraries On the basis of introducing basic knowledge of Python programming calculus and probability statistics the core basic knowledge of deep learning such as regression model neural network convolutional neural network recurrent neural network and generative network is introduced in sequence according to the development of deep learning While analyzing the principle in a simple way it provides a detailed code implementation process It is like not teaching you how to use weapons and mobile phones but teaching you how to make weapons and mobile phones by yourself This book is not a tutorial on the use of existing deep learning libraries but an analysis of how to develop deep learning libraries from 0 This method of combining the principle from 0 with code implementation can enable readers to better understand the basic principles of deep learning and the design ideas of popular deep learning libraries

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Internet of Things Security and

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Machine Learning and Deep Learning Using Python and TensorFlow

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