

DEEP LEARNING with Python

SECOND EDITION

François Chollet



MANNING

Deep Learning Python S Ebook

Chris Sebastian



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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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 [Python Programming](#) Frank Millstein,2020-09-07 Programming With Python 8 BOOK BUNDLE Deep Learning With Keras Here Is A Preview Of What You ll Learn Here The difference between deep learning and machine learning Deep neural networks Convolutional neural networks Building deep learning models with Keras Multi layer perceptron network models And much more Convolutional Neural Networks In Python Here Is A Preview Of What You ll Learn Here Convolutional neural networks structure How convolutional neural networks actually work Convolutional neural networks applications The importance of convolution operator How to build a simple image classification CNN And much much more Python Machine Learning Here Is A Preview Of What You ll Learn Here Basics behind machine learning techniques Most commonly used machine learning algorithms linear and logistic regression decision trees support vector machines k nearest neighbors random forests Solving multi clasification problems Data visualization with Matplotlib and data transformation with Pandas and Scikit learn Solving multi label classification problems And much much more Machine Learning With TensorFlow Here Is A Preview Of What You ll Learn Here What is machine learning Main uses and benefits of machine learning How to get started with TensorFlow installing and loading data Data flow graphs and basic TensorFlow expressions Creating MNIST classifiers with one hot transformation And much much more Data Analytics With Python Here Is A Preview Of What You ll Learn Here What is Data Analytics Difference between data science big data and data analytics Installing python Python data structures Pandas series and data frames And much much more Natural Language Processing With Python Here Is A Preview Of What You ll Learn Here Challenges of natural language processing How natural language processing works Part of speech tagging N grams Running natural language processing script And much much more DevOps Handbook Here Is A Preview Of What You ll Learn Here Issues and mistakes plaguing software development What is software development life cycle How software development life cycle works The origins of devops Testing and building systems tools And much much more DevOps Adoption Here Is A Preview Of What You ll Learn Here Devops definition Overcoming traditional dev and ops Devops and security integration Devops success factors Is devops right for you And much much more Get this book bundle NOW and SAVE money

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