**Handson Reinforcement Learning With Python**

**Book Description**

Reinforcement Learning (RL) is the trending and most promising branch of artificial intelligence. Hands-On Reinforcement learning with Python will start with an introduction to Reinforcement Learning followed by OpenAI Gym, and TensorFlow. You will then explore various RL algorithms and concepts, such as Markov Decision Process (MDP), Q-learning, SARSAR, policy gradient methods, and dynamic programming, including value and policy iteration. By the end of the book, you will have a deep understanding of how to implement reinforcement learning algorithms in Python and get familiar with the different reinforcement and dynamic programming methods.

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This book is a comprehensive guide to the very latest deep reinforcement learning tools and their limitations. You will explore how these tools can be applied to real-world problems. You will also learn how to implement deep Q-learning and related algorithms in real-world applications such as scientific research. Toward the end, you'll gain a deep understanding of the practical aspects of using deep reinforcement learning tools and get familiar with the different reinforcement learning tools and their limitations.

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Developing reinforcement learning algorithms and agents using TensorFlow and other Python tools, frameworks, and libraries. This book will help you understand the fundamentals of reinforcement learning, including state-of-the-art architectures and mathematical formulations. You will also learn how to implement and evaluate reinforcement learning algorithms in real-world applications such as scientific research. Toward the end, you’ll gain a deep understanding of the practical aspects of using reinforcement learning tools and get familiar with the different reinforcement learning tools and their limitations.

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Hands-On Reinforcement Learning with Python - Second Edition

This new edition of the best-selling guide to deep reinforcement learning has been updated to cover more complex real-world problems. Revised and expanded to include a wide range of new projects and exercises, this guide takes you on a journey from the fundamentals of reinforcement learning (RL) to the latest methods, including deep reinforcement learning (DRL). You'll learn how to build, train, and deploy intelligent learning agents to perform a variety of tasks, including fraud detection in finance, and TD learning for planning activities in the healthcare sector. You'll explore deep reinforcement learning using Keras, including tools such as using tabular Q-learning to control robots. You'll begin by learning the basic RL concepts, covering the agent-environment interface, Markov Decision Process (MDP), and reinforcement learning algorithms. This guide will teach you how to develop and train intelligent agents using Python and TensorFlow, and how to use deep learning to build intelligent software. The book includes six new chapters devoted to a variety of up-to-the-minute topics, including decision trees, random forests, and ensemble methods. Use the TensorFlow library to build and train intelligent agents. You'll also learn how to use Keras to build and train intelligent agents. The book covers a wide range of topics, including deep learning and reinforcement learning algorithms, and how to use them to build intelligent agents. The book is filled with practical exercises that will help you develop and train intelligent agents using Python and TensorFlow. The book is filled with practical exercises that will help you develop and train intelligent agents using Python and TensorFlow.
Register your book for convenient access to downloads, updates, and/or corrections as they become available. See inside book for details.

Keras to nimbly construct efficient TensorFlow models; PyTorch, the leading alternative library, is also covered. You'll gain a pragmatic understanding of all major deep learning approaches. Krohn has created a practical reference and tutorial for developers, data scientists, researchers, analysts, and students who want to start applying deep learning to good use: improved medical imaging, accurate credit card fraud detection, long range weather forecasting, and more. PyTorch puts these superpowers in your hands. Instantly familiar to anyone who knows Python data tools like NumPy and Scikit-learn, PyTorch simplifies deep learning without sacrificing advanced features. It's great for building quick models, and it scales smoothly from laptop to enterprise.

Deep Learning with PyTorch teaches you to create deep learning and prediction models from scratch using the latest PyTorch framework. The book begins with a hands-on, practical approach to deep learning and you'll be able to create and train fully functional deep learning systems on your devices and models, and data augmentation, and explore different deep learning frameworks such as the PyTorch framework. This book covers the fundamentals of machine learning with Python in a concise and dynamic manner. It covers data mining and large-scale machine learning using open-source tools like Scikit-Learn and Keras.

Deep Reinforcement Learning with Python (Khojali, K. J., 2020-03-01) 1st ed. 2020. 541 p. 14 illus., 13 illus. in col. Hardcover. This book inlcudes an introduction to the field of reinforcement learning, agent training, and deep reinforcement learning. It covers deep learning for computer vision, deep learning for text and sequences, advanced deep-learning best practices, and deep reinforcement learning best practices. It also covers deep learning in practice, deep learning applications, and deep learning for autonomous vehicles. The book also focuses on building a foundation of machine learning knowledge to understand different machine learning algorithms and to implement them effectively. It also covers the use of deep reinforcement learning for improving the performance of autonomous vehicles and other applications. This book covers the fundamentals of machine learning with Python in a concise and dynamic manner. It covers data mining and large-scale machine learning using open-source tools like Scikit-Learn and Keras.

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Reinforcement learning has evolved a lot in the last couple of years and proven to be a successful method of machine learning. This book will teach you reinforcement learning by developing practical projects.

You will learn how to
- Simulate a random walk using Markov chains and select the best portfolio using dynamic programming (DP)
- Implement Monte Carlo methods to forecast environment behaviors
- Practice the Markov decision process in prediction and betting evaluations
- Explore TD learning algorithms to manage warehouse operations
- Construct a Deep Q-Network using Python and OpenAI Gym to control virtual environments
- Develop a Q-learning framework using Markov processes and build models for predicting stock prices
- Address a game theory problem using Q-Learning and OpenAI Gym

By the end of this book, you'll not only have developed hands-on experience with concepts, algorithms, and techniques of reinforcement learning but also be all set to explore the world of AI. What you will learn provides a solid foundation for building more advanced machine learning and AI systems.