Reinforcement Learning in ML

Input Raw Data

Environment

Output

Reward

Best Action

State

Selection of Algorithm

Agent

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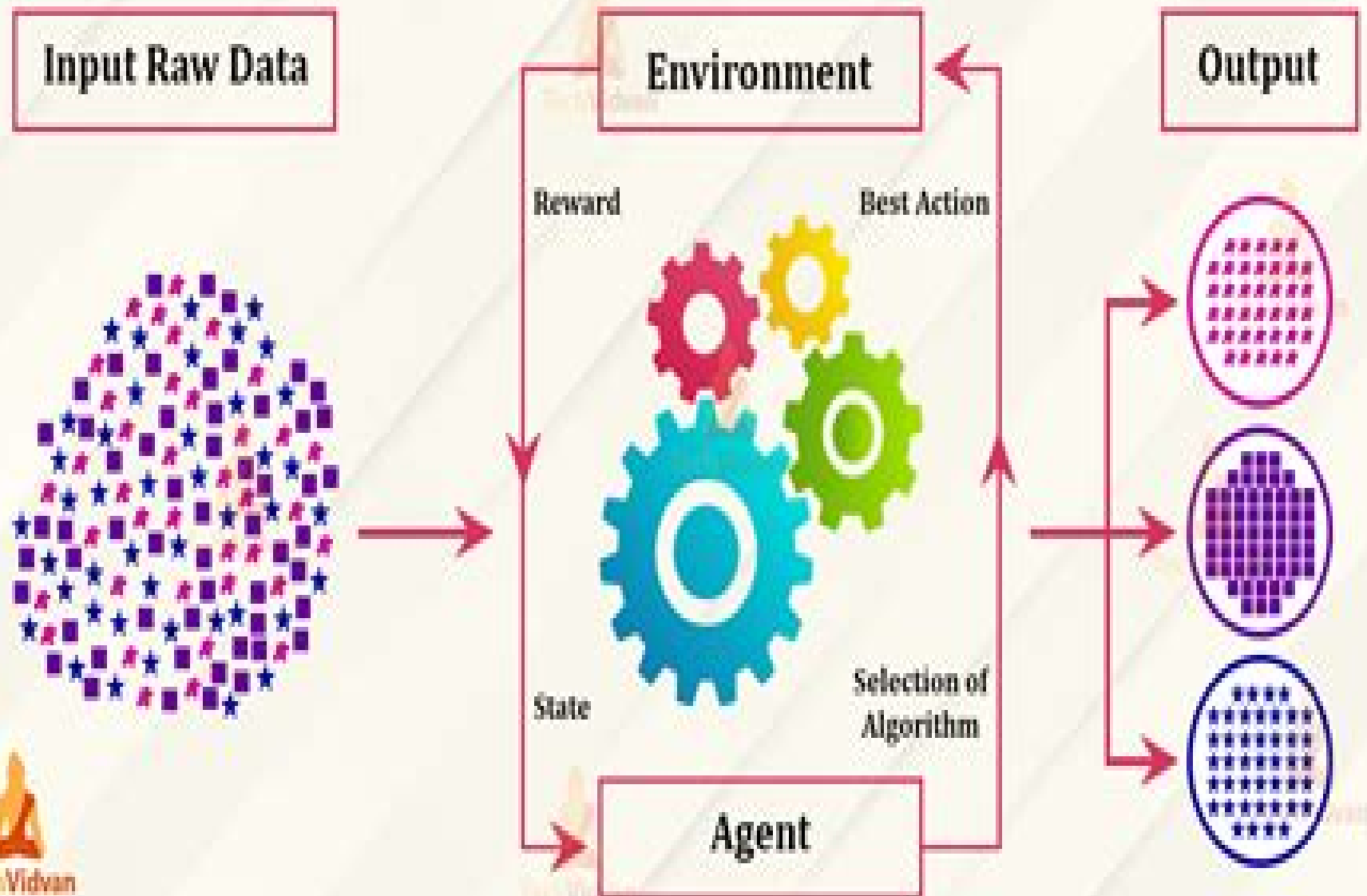
Reinforcement Learning

Phil Winder P. D.

Reinforcement Learning:

    Reinforcement Learning Richard S. Sutton,1992-05-31 Reinforcement learning is the learning of a mapping from situations to actions so as to maximize a scalar reward or reinforcement signal The learner is not told which action to take as in most forms of machine learning but instead must discover which actions yield the highest reward by trying them In the most interesting and challenging cases actions may affect not only the immediate reward but also the next situation and through that all subsequent rewards These two characteristics trial and error search and delayed reward are the most important distinguishing features of reinforcement learning Reinforcement learning is both a new and a very old topic in AI The term appears to have been coined by Minsk 1961 and independently in control theory by Walz and Fu 1965 The earliest machine learning research now viewed as directly relevant was Samuel s 1959 checker player which used temporal difference learning to manage delayed reward much as it is used today Of course learning and reinforcement have been studied in psychology for almost a century and that work has had a very strong impact on the AI engineering work One could in fact consider all of reinforcement learning to be simply the reverse engineering of certain psychological learning processes e g operant conditioning and secondary reinforcement Reinforcement Learning is an edited volume of original research comprising seven invited contributions by leading researchers   *Deep Reinforcement Learning* Hao Dong,Zihan Ding,Shanghang Zhang,2020-06-29 Deep reinforcement learning DRL is the combination of reinforcement learning RL and deep learning It has been able to solve a wide range of complex decision making tasks that were previously out of reach for a machine and famously contributed to the success of AlphaGo Furthermore it opens up numerous new applications in domains such as healthcare robotics smart grids and finance Divided into three main parts this book provides a comprehensive and self contained introduction to DRL The first part introduces the foundations of deep learning reinforcement learning RL and widely used deep RL methods and discusses their implementation The second part covers selected DRL research topics which are useful for those wanting to specialize in DRL research To help readers gain a deep understanding of DRL and quickly apply the techniques in practice the third part presents mass applications such as the intelligent transportation system and learning to run with detailed explanations The book is intended for computer science students both undergraduate and postgraduate who would like to learn DRL from scratch practice its implementation and explore the research topics It also appeals to engineers and practitioners who do not have strong machine learning background but want to quickly understand how DRL works and use the techniques in their applications   *Fundamentals of Reinforcement Learning* Rafael Ris-Ala,2023-08-14 Artificial intelligence AI applications bring agility and modernity to our lives and the reinforcement learning technique is at the forefront of this technology It can outperform human competitors in strategy games creative compositing and autonomous movement Moreover it is just starting to transform our civilization This book provides an introduction to AI specifies machine learning techniques and explores various aspects of reinforcement learning

approaching the latest concepts in a didactic and illustrated manner It is aimed at students who want to be part of technological advances and professors engaged in the development of innovative applications helping with academic and industrial challenges Understanding the Fundamentals of Reinforcement Learning will allow you to Understand essential AI concepts Gain professional experience Interpret sequential decision problems and solve them with reinforcement learning Learn how the Q Learning algorithm works Practice with commented Python code Find advantageous directions **Deep Reinforcement Learning Hands-On** Maxim Lapan,2024-11-12 Maxim Lapan delivers intuitive explanations and insights into complex reinforcement learning RL concepts starting from the basics of RL on simple environments and tasks to modern state of the art methods Purchase of the print or Kindle book includes a free PDF eBook Key Features Learn with concise explanations modern libraries and diverse applications from games to stock trading and web navigation Develop deep RL models improve their stability and efficiently solve complex environments New content on RL from human feedback RLHF MuZero and transformers Book Description Start your journey into reinforcement learning RL and reward yourself with the third edition of Deep Reinforcement Learning Hands On This book takes you through the basics of RL to more advanced concepts with the help of various applications including game playing discrete optimization stock trading and web browser navigation By walking you through landmark research papers in the fi eld this deep RL book will equip you with practical knowledge of RL and the theoretical foundation to understand and implement most modern RL papers The book retains its approach of providing concise and easy to follow explanations from the previous editions You ll work through practical and diverse examples from grid environments and games to stock trading and RL agents in web environments to give you a well rounded understanding of RL its capabilities and its use cases You ll learn about key topics such as deep Q networks DQNs policy gradient methods continuous control problems and highly scalable non gradient methods If you want to learn about RL through a practical approach using OpenAI Gym and PyTorch concise explanations and the incremental development of topics then Deep Reinforcement Learning Hands On Third Edition is your ideal companion What you will learn Stay on the cutting edge with new content on MuZero RL with human feedback and LLMs Evaluate RL methods including cross entropy DQN actor critic TRPO PPO DDPG and D4PG Implement RL algorithms using PyTorch and modern RL libraries Build and train deep Q networks to solve complex tasks in Atari environments Speed up RL models using algorithmic and engineering approaches Leverage advanced techniques like proximal policy optimization PPO for more stable training Who this book is for This book is ideal for machine learning engineers software engineers and data scientists looking to learn and apply deep reinforcement learning in practice It assumes familiarity with Python calculus and machine learning concepts With practical examples and high level overviews it s also suitable for experienced professionals looking to deepen their understanding of advanced deep RL methods and apply them across industries such as gaming and finance **Deep Reinforcement Learning in Action** Brandon Brown,Alexander Zai,2020-03-16 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   *Algorithms for Reinforcement Learning* Csaba Szepesvari,2010-08-08 Reinforcement learning is a learning paradigm concerned with learning to control a system so as to maximize a numerical performance measure that expresses a long term objective What distinguishes reinforcement learning from supervised learning is that only partial feedback is given to the learner about the learner s predictions Further the predictions may have long term effects through influencing the future state of the controlled system Thus time plays a special role The goal in reinforcement learning is to develop efficient learning algorithms as well as to understand the algorithms merits and limitations Reinforcement learning is of great interest because of the large number of practical applications that it can be used to address ranging from problems in artificial intelligence to operations research or control engineering In this book we focus on those algorithms of reinforcement learning that build on the powerful theory of dynamic programming We give a fairly comprehensive catalog of learning problems describe the core ideas note a large number of state of the art algorithms

followed by the discussion of their theoretical properties and limitations Table of Contents Markov Decision Processes Value Prediction Problems Control For Further Exploration   Hands-On Reinforcement Learning with Python Sudharsan Ravichandiran,2018-06-28 A hands on guide enriched with examples to master deep reinforcement learning algorithms with Python Key Features Your entry point into the world of artificial intelligence using the power of Python An example rich guide to master various RL and DRL algorithms Explore various state of the art architectures along with math Book Description Reinforcement Learning RL is the trending and most promising branch of artificial intelligence Hands On Reinforcement learning with Python will help you master not only the basic reinforcement learning algorithms but also the advanced deep reinforcement learning algorithms The book starts 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 Monte Carlo methods and dynamic programming including value and policy iteration This example rich guide will introduce you to deep reinforcement learning algorithms such as Dueling DQN DRQN A3C PPO and TRPO You will also learn about imagination augmented agents learning from human preference DQfD HER and many more of the recent advancements in reinforcement learning By the end of the book you will have all the knowledge and experience needed to implement reinforcement learning and deep reinforcement learning in your projects and you will be all set to enter the world of artificial intelligence What you will learn Understand the basics of reinforcement learning methods algorithms and elements Train an agent to walk using OpenAI Gym and Tensorflow Understand the Markov Decision Process Bellman s optimality and TD learning Solve multi armed bandit problems using various algorithms Master deep learning algorithms such as RNN LSTM and CNN with applications Build intelligent agents using the DRQN algorithm to play the Doom game Teach agents to play the Lunar Lander game using DDPG Train an agent to win a car racing game using dueling DQN Who this book is for If you re a machine learning developer or deep learning enthusiast interested in artificial intelligence and want to learn about reinforcement learning from scratch this book is for you Some knowledge of linear algebra calculus and the Python programming language will help you understand the concepts covered in this book   **Reinforcement Learning** Richard S. Sutton,Andrew G. Barto,1998 An account of key ideas and algorithms in reinforcement learning The discussion ranges from the history of the field s intellectual foundations to recent developments and applications Areas studied include reinforcement learning problems in terms of Markov decision problems and solution methods   Reinforcement Learning From Scratch Uwe Lorenz,2022-10-27 In ancient games such as chess or go the most brilliant players can improve by studying the strategies produced by a machine Robotic systems practice their own movements In arcade games agents capable of learning reach superhuman levels within a few hours How do these spectacular reinforcement learning algorithms work With easy to understand explanations and clear examples in Java and Greenfoot you can acquire the principles of reinforcement learning and apply them in your own intelligent agents Greenfoot M K lling King s College London and the

hamster model D Bohles University of Oldenburg are simple but also powerful didactic tools that were developed to convey basic programming concepts The result is an accessible introduction into machine learning that concentrates on reinforcement learning Taking the reader through the steps of developing intelligent agents from the very basics to advanced aspects touching on a variety of machine learning algorithms along the way one is allowed to play along experiment and add their own ideas and experiments   Reinforcement Learning Marco Wiering,Martijn van Otterlo,2012-03-05 Reinforcement learning encompasses both a science of adaptive behavior of rational beings in uncertain environments and a computational methodology for finding optimal behaviors for challenging problems in control optimization and adaptive behavior of intelligent agents As a field reinforcement learning has progressed tremendously in the past decade The main goal of this book is to present an up to date series of survey articles on the main contemporary sub fields of reinforcement learning This includes surveys on partially observable environments hierarchical task decompositions relational knowledge representation and predictive state representations Furthermore topics such as transfer evolutionary methods and continuous spaces in reinforcement learning are surveyed In addition several chapters review reinforcement learning methods in robotics in games and in computational neuroscience In total seventeen different subfields are presented by mostly young experts in those areas and together they truly represent a state of the art of current reinforcement learning research Marco Wiering works at the artificial intelligence department of the University of Groningen in the Netherlands He has published extensively on various reinforcement learning topics Martijn van Otterlo works in the cognitive artificial intelligence group at the Radboud University Nijmegen in The Netherlands He has mainly focused on expressive knowledge representation in reinforcement learning settings   **The The Reinforcement Learning Workshop** Alessandro Palmas,Emanuele Ghelfi,Dr. Alexandra Galina Petre,Mayur Kulkarni,Anand N.S.,Quan Nguyen,Aritra Sen,Anthony So,Saikat Basak,2020-08-18 Start with the basics of reinforcement learning and explore deep learning concepts such as deep Q learning deep recurrent Q networks and policy based methods with this practical guide Key FeaturesUse TensorFlow to write reinforcement learning agents for performing challenging tasksLearn how to solve finite Markov decision problemsTrain models to understand popular video games like BreakoutBook Description Various intelligent applications such as video games inventory management software warehouse robots and translation tools use reinforcement learning RL to make decisions and perform actions that maximize the probability of the desired outcome This book will help you to get to grips with the techniques and the algorithms for implementing RL in your machine learning models Starting with an introduction to RL you ll be guided through different RL environments and frameworks You ll learn how to implement your own custom environments and use OpenAI baselines to run RL algorithms Once you ve explored classic RL techniques such as Dynamic Programming Monte Carlo and TD Learning you ll understand when to apply the different deep learning methods in RL and advance to deep Q learning The book will even help you understand the different stages of machine based problem solving by using DARQN on a popular video game

Breakout Finally you ll find out when to use a policy based method to tackle an RL problem By the end of The Reinforcement Learning Workshop you ll be equipped with the knowledge and skills needed to solve challenging problems using reinforcement learning What you will learnUse OpenAI Gym as a framework to implement RL environmentsFind out how to define and implement reward functionExplore Markov chain Markov decision process and the Bellman equationDistinguish between Dynamic Programming Monte Carlo and Temporal Difference LearningUnderstand the multi armed bandit problem and explore various strategies to solve itBuild a deep Q model network for playing the video game BreakoutWho this book is for If you are a data scientist machine learning enthusiast or a Python developer who wants to learn basic to advanced deep reinforcement learning algorithms this workshop is for you A basic understanding of the Python language is necessary

Reinforcement Learning Phil Winder Ph.D.,2020-11-06 Reinforcement learning RL will deliver one of the biggest breakthroughs in AI over the next decade enabling algorithms to learn from their environment to achieve arbitrary goals This exciting development avoids constraints found in traditional machine learning ML algorithms This practical book shows data science and AI professionals how to learn by reinforcement and enable a machine to learn by itself Author Phil Winder of Winder Research covers everything from basic building blocks to state of the art practices You ll explore the current state of RL focus on industrial applications learn numerous algorithms and benefit from dedicated chapters on deploying RL solutions to production This is no cookbook doesn t shy away from math and expects familiarity with ML Learn what RL is and how the algorithms help solve problems Become grounded in RL fundamentals including Markov decision processes dynamic programming and temporal difference learning Dive deep into a range of value and policy gradient methods Apply advanced RL solutions such as meta learning hierarchical learning multi agent and imitation learning Understand cutting edge deep RL algorithms including Rainbow PPO TD3 SAC and more Get practical examples through the accompanying website

Hands-On Reinforcement Learning with R Giuseppe Ciaburro,2019-12-17 Implement key reinforcement learning algorithms and techniques using different R packages such as the Markov chain MDP toolbox contextual and OpenAI Gym Key Features Explore the design principles of reinforcement learning and deep reinforcement learning models Use dynamic programming to solve design issues related to building a self learning system Learn how to systematically implement reinforcement learning algorithms Book Description Reinforcement learning RL is an integral part of machine learning ML and is used to train algorithms With this book you ll learn how to implement reinforcement learning with R exploring practical examples 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 Processes MDPs and policy gradient methods You ll then use R s libraries to develop a model based on Markov chains You will also learn how to solve a multi armed bandit problem using various R packages By applying dynamic programming and Monte Carlo methods you will also find the best policy to make predictions As you progress you ll use Temporal Difference TD learning for vehicle routing problem applications Gradually you ll apply

the concepts you ve learned to real world problems including fraud detection in finance and TD learning for planning activities in the healthcare sector You ll explore deep reinforcement learning using Keras which uses the power of neural networks to increase RL s potential Finally you ll discover the scope of RL and explore the challenges in building and deploying machine learning models By the end of this book you ll be well versed with RL and have the skills you need to efficiently implement it with R What you will learn Understand how to use MDP to manage complex scenarios Solve classic reinforcement learning problems such as the multi armed bandit model Use dynamic programming for optimal policy searching Adopt Monte Carlo methods for prediction Apply TD learning to search for the best path Use tabular Q learning to control robots Handle environments using the OpenAI library to simulate real world applications Develop deep Q learning algorithms to improve model performance Who this book is for This book is for anyone who wants to learn about reinforcement learning with R from scratch A solid understanding of R and basic knowledge of machine learning are necessary to grasp the topics covered in the book **TensorFlow Reinforcement Learning Quick Start Guide** Kaushik Balakrishnan,2019-03-30 Leverage the power of Tensorflow to Create powerful software agents that can self learn to perform real world tasks Key FeaturesExplore efficient Reinforcement Learning algorithms and code them using TensorFlow and PythonTrain Reinforcement Learning agents for problems ranging from computer games to autonomous driving Formulate and devise selective algorithms and techniques in your applications in no time Book Description Advances in reinforcement learning algorithms have made it possible to use them for optimal control in several different industrial applications With this book you will apply Reinforcement Learning to a range of problems from computer games to autonomous driving The book starts by introducing you to essential Reinforcement Learning concepts such as agents environments rewards and advantage functions You will also master the distinctions between on policy and off policy algorithms as well as model free and model based algorithms You will also learn about several Reinforcement Learning algorithms such as SARSA Deep Q Networks DQN Deep Deterministic Policy Gradients DDPG Asynchronous Advantage Actor Critic A3C Trust Region Policy Optimization TRPO and Proximal Policy Optimization PPO The book will also show you how to code these algorithms in TensorFlow and Python and apply them to solve computer games from OpenAI Gym Finally you will also learn how to train a car to drive autonomously in the Torcs racing car simulator By the end of the book you will be able to design build train and evaluate feed forward neural networks and convolutional neural networks You will also have mastered coding state of the art algorithms and also training agents for various control problems What you will learnUnderstand the theory and concepts behind modern Reinforcement Learning algorithmsCode state of the art Reinforcement Learning algorithms with discrete or continuous actionsDevelop Reinforcement Learning algorithms and apply them to training agents to play computer gamesExplore DQN DDQN and Dueling architectures to play Atari s Breakout using TensorFlowUse A3C to play CartPole and LunarLanderTrain an agent to drive a car autonomously in a simulatorWho this book is for Data scientists and AI developers who wish to quickly

get started with training effective reinforcement learning models in TensorFlow will find this book very useful Prior knowledge of machine learning and deep learning concepts as well as exposure to Python programming will be useful

Handbook of Reinforcement Learning and Control Kyriakos G. Vamvoudakis,Yan Wan,Frank L. Lewis,Derya Cansever,2021-05-21 This handbook presents state of the art research in reinforcement learning focusing on its applications in the control and game theory of dynamic systems and future directions for related research and technology The contributions gathered in this book deal with challenges faced when using learning and adaptation methods to solve academic and industrial problems such as optimization in dynamic environments with single and multiple agents convergence and performance analysis and online implementation They explore means by which these difficulties can be solved and cover a wide range of related topics including deep learning artificial intelligence applications of game theory mixed modality learning and multi agent reinforcement learning Practicing engineers and scholars in the field of machine learning game theory and autonomous control will find the Handbook of Reinforcement Learning and Control to be thought provoking instructive and informative **Deep Reinforcement Learning Hands-On** Maxim Lapan,2020-01-31 Revised and expanded to include multi agent methods discrete optimization RL in robotics advanced exploration techniques and more Key Features Second edition of the bestselling introduction to deep reinforcement learning expanded with six new chapters Learn advanced exploration techniques including noisy networks pseudo count and network distillation methods Apply RL methods to cheap hardware robotics platforms Book DescriptionDeep Reinforcement Learning Hands On Second Edition is an updated and expanded version of the bestselling guide to the very latest reinforcement learning RL tools and techniques It provides you with an introduction to the fundamentals of RL along with the hands on ability to code intelligent learning agents to perform a range of practical tasks With six new chapters devoted to a variety of up to the minute developments in RL including discrete optimization solving the Rubik s Cube multi agent methods Microsoft s TextWorld environment advanced exploration techniques and more you will come away from this book with a deep understanding of the latest innovations in this emerging field In addition you will gain actionable insights into such topic areas as deep Q networks policy gradient methods continuous control problems and highly scalable non gradient methods You will also discover how to build a real hardware robot trained with RL for less than 100 and solve the Pong environment in just 30 minutes of training using step by step code optimization In short Deep Reinforcement Learning Hands On Second Edition is your companion to navigating the exciting complexities of RL as it helps you attain experience and knowledge through real world examples What you will learn Understand the deep learning context of RL and implement complex deep learning models Evaluate RL methods including cross entropy DQN actor critic TRPO PPO DDPG D4PG and others Build a practical hardware robot trained with RL methods for less than 100 Discover Microsoft s TextWorld environment which is an interactive fiction games platform Use discrete optimization in RL to solve a Rubik s Cube Teach your agent to play Connect 4 using AlphaGo Zero

Explore the very latest deep RL research on topics including AI chatbots Discover advanced exploration techniques including noisy networks and network distillation techniques Who this book is for Some fluency in Python is assumed Sound understanding of the fundamentals of deep learning will be helpful This book is an introduction to deep RL and requires no background in RL   Recent Advances in Reinforcement Learning Leslie Pack Kaelbling,1996-03-31 Recent Advances in Reinforcement Learning addresses current research in an exciting area that is gaining a great deal of popularity in the Artificial Intelligence and Neural Network communities Reinforcement learning has become a primary paradigm of machine learning It applies to problems in which an agent such as a robot a process controller or an information retrieval engine has to learn how to behave given only information about the success of its current actions This book is a collection of important papers that address topics including the theoretical foundations of dynamic programming approaches the role of prior knowledge and methods for improving performance of reinforcement learning techniques These papers build on previous work and will form an important resource for students and researchers in the area Recent Advances in Reinforcement Learning is an edited volume of peer reviewed original research comprising twelve invited contributions by leading researchers This research work has also been published as a special issue of Machine Learning Volume 22 Numbers 1 2 and 3   *Hands-On Reinforcement Learning for Games* Micheal Lanham,2020-01-03 Explore reinforcement learning RL techniques to build cutting edge games using Python libraries such as PyTorch OpenAI Gym and TensorFlow Key FeaturesGet to grips with the different reinforcement and DRL algorithms for game developmentLearn how to implement components such as artificial agents map and level generation and audio generationGain insights into cutting edge RL research and understand how it is similar to artificial general researchBook Description With the increased presence of AI in the gaming industry developers are challenged to create highly responsive and adaptive games by integrating artificial intelligence into their projects This book is your guide to learning how various reinforcement learning techniques and algorithms play an important role in game development with Python Starting with the basics this book will help you build a strong foundation in reinforcement learning for game development Each chapter will assist you in implementing different reinforcement learning techniques such as Markov decision processes MDPs Q learning actor critic methods SARSA and deterministic policy gradient algorithms to build logical self learning agents Learning these techniques will enhance your game development skills and add a variety of features to improve your game agent s productivity As you advance you ll understand how deep reinforcement learning DRL techniques can be used to devise strategies to help agents learn from their actions and build engaging games By the end of this book you ll be ready to apply reinforcement learning techniques to build a variety of projects and contribute to open source applications What you will learnUnderstand how deep learning can be integrated into an RL agentExplore basic to advanced algorithms commonly used in game developmentBuild agents that can learn and solve problems in all types of environmentsTrain a Deep Q Network DQN agent to solve the CartPole balancing

problemDevelop game AI agents by understanding the mechanism behind complex AIIntegrate all the concepts learned into new projects or gaming agentsWho this book is for If you re a game developer looking to implement AI techniques to build next generation games from scratch this book is for you Machine learning and deep learning practitioners and RL researchers who want to understand how to use self learning agents in the game domain will also find this book useful Knowledge of game development and Python programming experience are required   Python Reinforcement Learning Sudharsan Ravichandiran,Sean Saito,Rajalingappaa Shanmugamani,Yang Wenzhuo,2019-04-18 Apply modern reinforcement learning and deep reinforcement learning methods using Python and its powerful libraries Key FeaturesYour entry point into the world of artificial intelligence using the power of PythonAn example rich guide to master various RL and DRL algorithmsExplore the power of modern Python libraries to gain confidence in building self trained applicationsBook Description Reinforcement Learning RL is the trending and most promising branch of artificial intelligence This Learning Path will help you master not only the basic reinforcement learning algorithms but also the advanced deep reinforcement learning algorithms The Learning Path starts with an introduction to RL followed by OpenAI Gym and TensorFlow You will then explore various RL algorithms such as Markov Decision Process Monte Carlo methods and dynamic programming including value and policy iteration You ll also work on various datasets including image text and video This example rich guide will introduce you to deep RL algorithms such as Dueling DQN DRQN A3C PPO and TRPO You will gain experience in several domains including gaming image processing and physical simulations You ll explore TensorFlow and OpenAI Gym to implement algorithms that also predict stock prices generate natural language and even build other neural networks You will also learn about imagination augmented agents learning from human preference DQfD HER and many of the recent advancements in RL By the end of the Learning Path you will have all the knowledge and experience needed to implement RL and deep RL in your projects and you enter the world of artificial intelligence to solve various real life problems This Learning Path includes content from the following Packt products Hands On Reinforcement Learning with Python by Sudharsan RavichandiranPython Reinforcement Learning Projects by Sean Saito Yang Wenzhuo and Rajalingappaa ShanmugamaniWhat you will learnTrain an agent to walk using OpenAI Gym and TensorFlowSolve multi armed bandit problems using various algorithmsBuild intelligent agents using the DRQN algorithm to play the Doom gameTeach your agent to play Connect4 using AlphaGo ZeroDefeat Atari arcade games using the value iteration methodDiscover how to deal with discrete and continuous action spaces in various environmentsWho this book is for If you re an ML DL enthusiast interested in AI and want to explore RL and deep RL from scratch this Learning Path is for you Prior knowledge of linear algebra is expected   **Reinforcement Learning** Phil Winder P. D.,2021-04-13 Reinforcement learning RL will deliver one of the biggest breakthroughs in AI over the next decade enabling algorithms to learn from their environment to achieve arbitrary goals This exciting development avoids constraints found in traditional machine learning ML algorithms This

practical book shows data science and AI professionals how to perform the reinforcement process that allows a machine to learn by itself Author Dr Phil Winder of Winder Research covers everything from basic building blocks to state of the art practices You ll explore the current state of RL focusing on industrial applications and learn numerous algorithms frameworks and environments This is no cookbook it doesn t shy away from math and expects familiarity with ML Learn what RL is and how the algorithms help solve problems Become grounded in RL fundamentals including Markov decision processes dynamic programming and temporal difference learning Dive deep into value methods and policy gradient methods Apply advanced RL implementations such as meta learning hierarchical learning evolutionary algorithms and imitation learning Understand cutting edge deep RL algorithms including Rainbow PPO TD3 SAC and more Get practical examples through the accompanying Git repository

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