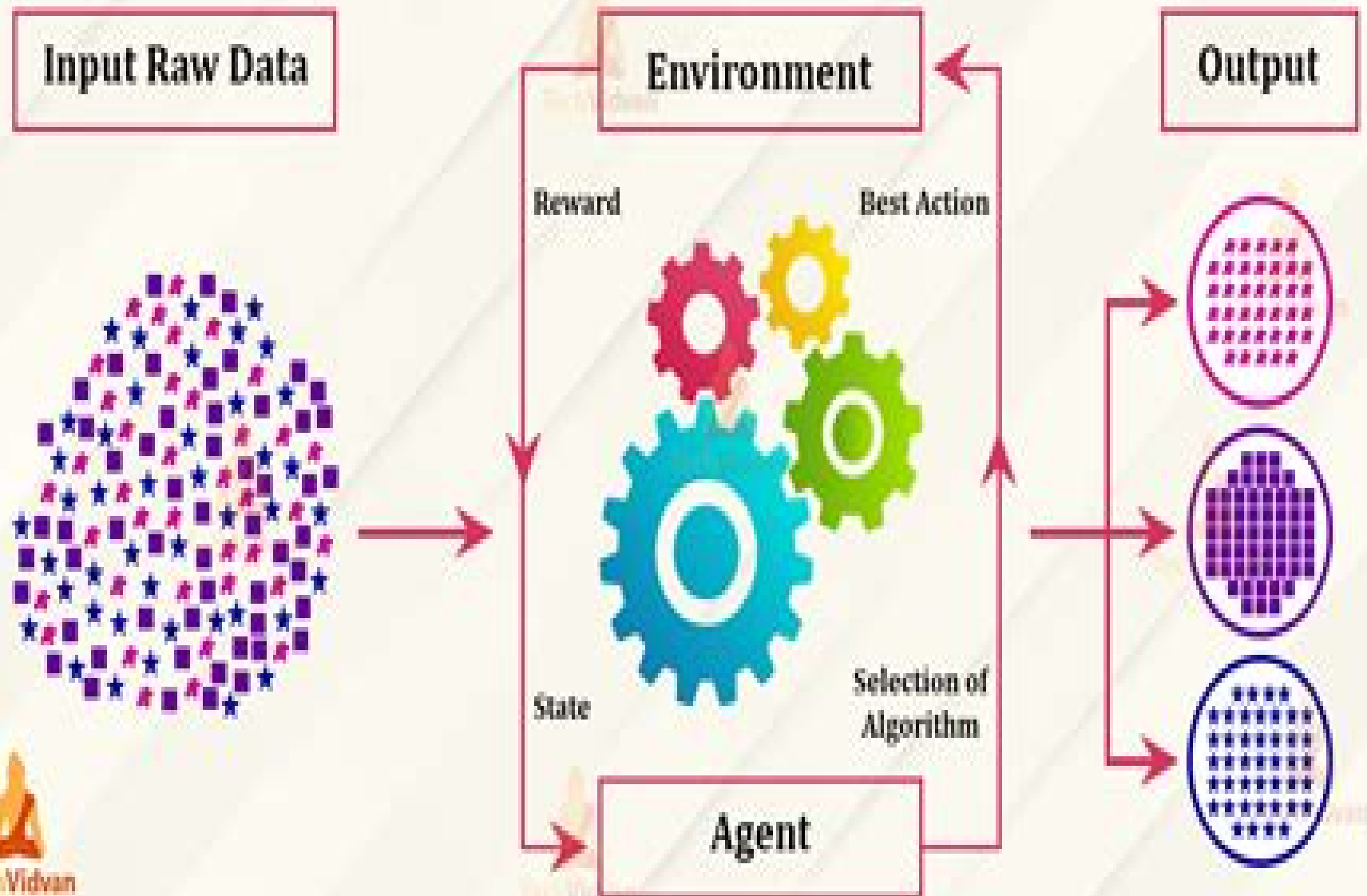


Reinforcement Learning in ML



Reinforcement Learning

Richard S. Sutton, Andrew G. Barto



Reinforcement Learning:

Reinforcement Learning Cornelius Weber, Mark Elshaw, N. Michael Mayer, 2008-01-01 Brains rule the world and brain like computation is increasingly used in computers and electronic devices Brain like computation is about processing and interpreting data or directly putting forward and performing actions Learning is a very important aspect This book is on reinforcement learning which involves performing actions to achieve a goal The first 11 chapters of this book describe and extend the scope of reinforcement learning The remaining 11 chapters show that there is already wide usage in numerous fields Reinforcement learning can tackle control tasks that are too complex for traditional hand designed non learning controllers As learning computers can deal with technical complexities the tasks of human operators remain to specify goals on increasingly higher levels This book shows that reinforcement learning is a very dynamic area in terms of theory and applications and it shall stimulate and encourage new research in this field 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

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

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 Reinforcement Learning and Optimal Control Dimitri Bertsekas, 2019-07-01 This book considers large and challenging multistage decision problems which can be solved in principle by dynamic programming DP but their exact solution is computationally intractable We discuss solution methods that rely on approximations to produce suboptimal policies with adequate performance These methods are collectively known by several essentially equivalent names reinforcement learning approximate dynamic programming neuro dynamic programming They have been at the forefront of research for the last 25 years and they underlie among others the recent impressive successes of self learning in the context of games such as chess and Go Our subject has benefited greatly from the interplay of ideas from optimal control and from artificial intelligence as it relates to reinforcement learning and simulation based neural network methods One of the aims of the book is to explore the common boundary between these two fields and to form a bridge that is accessible by workers with background in either field Another aim is to organize coherently the broad mosaic of methods that have proved successful in practice while having a solid theoretical and or logical foundation This may help researchers and practitioners to find their way through the maze of competing ideas that constitute the current state of the art This book relates to several of our other books Neuro Dynamic Programming Athena Scientific 1996 Dynamic Programming and Optimal Control 4th edition Athena Scientific 2017 Abstract Dynamic Programming 2nd edition Athena Scientific 2018 and Nonlinear Programming Athena Scientific 2016 However the mathematical style of this book is somewhat different While we provide a rigorous albeit short mathematical account of the theory of finite and infinite horizon dynamic programming and some fundamental approximation methods we rely more on intuitive explanations and less on proof based insights Moreover our mathematical requirements are quite modest calculus a minimal use of matrix vector algebra and elementary probability mathematically complicated arguments involving laws of large numbers and stochastic convergence are bypassed in favor of intuitive explanations The book illustrates the methodology with many examples and illustrations and uses a gradual expository approach which proceeds along four directions a From exact DP to approximate DP We first discuss exact DP algorithms explain why they may be difficult to implement and then use them as the basis for approximations b From finite horizon to infinite horizon problems We first discuss finite horizon exact and approximate DP methodologies which are intuitive and mathematically simple and then progress to infinite horizon problems c From deterministic to stochastic models We often discuss separately deterministic and stochastic problems since deterministic problems are simpler and offer special advantages for some of our methods d From model based to model free implementations We first discuss model based implementations and then we identify schemes that can be appropriately

modified to work with a simulator The book is related and supplemented by the companion research monograph Rollout Policy Iteration and Distributed Reinforcement Learning Athena Scientific 2020 which focuses more closely on several topics related to rollout approximate policy iteration multiagent problems discrete and Bayesian optimization and distributed computation which are either discussed in less detail or not covered at all in the present book The author's website contains class notes and a series of videolectures and slides from a 2021 course at ASU which address a selection of topics from both books

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 Marco Wiering, Martijn van Otterlo, 2012-03-14 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 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 Features Use TensorFlow to write reinforcement learning agents for performing challenging tasks Learn how to solve finite Markov decision problems Train models to understand popular video games like Breakout Book 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 DQN 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 learn Use OpenAI Gym as a framework to implement RL environments Find out how to define and implement reward function Explore Markov chain Markov decision process and the Bellman equation Distinguish between Dynamic Programming Monte Carlo and Temporal Difference Learning Understand the multi armed bandit problem and explore various strategies to solve it Build a deep Q model network for playing the video game Breakout Who 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

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

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