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Machine Learning Foundations A Case Study Approach

Tofael Ahamed

Machine Learning Foundations A Case Study Approach:

Reinforcement Learning: Foundations and Applications Mukesh Kumar, Vivek Bhardwaj, Karan Bajaj, Saurav Mallik, Mingqiang Wang,2025-11-28 Reinforcement Learning Foundations and Applications combines rigorous theory with real world relevance to introduce readers to one of the most influential branches of modern Artificial Intelligence Walking readers through the essential principles algorithms and techniques that define reinforcement learning RL the book highlights how RL enables intelligent systems to learn from interaction and optimize decision making in domains such as robotics autonomous control game AI finance and healthcare The book opens with foundational RL concepts including Markov Decision Processes dynamic programming and the exploration exploitation dilemma It then progresses to advanced material covering policy gradient methods actor critic architectures deep reinforcement learning models and multi agent systems Dedicated application chapters demonstrate how RL drives adaptive control sequential decision making and practical problem solving supported by case studies diagrams and algorithm pseudocode Rich with examples research insights and implementation guidance this book equips readers with both the conceptual understanding and applied perspective needed to master reinforcement learning Key Features Blends foundational RL theory with practical application driven case studies Explains both model based and model free reinforcement learning approaches Covers cutting edge methods including Deep Q Networks continuous control and reward shaping Presents clear diagrams pseudocode and implementation notes to support hands on learning Highlights current challenges limitations and emerging research directions in RL

Geophysical, Climatological and Anthropogenic Hazards and Disaster: Vulnerability, Risk Assessment, and Sustainability Shankar Karuppannan,Sandipan Das,Suresh Kumar,Uday Chatterjee,2024-02-12 Nowadays the whole world faces frequent natural and anthropogenic hazards from drought to flood to deforestation which impends a large number of people into catastrophic destruction and damage Since natural hazards cannot be eliminated quantifying these events and creating reliable forecasts can alleviate their detrimental effects which can help build a more resilient and safe society This Research Topic will comply with the available knowledge of the multi hazards in response to monitoring and management and intends to fulfil the gap between science policy and the community concerned It also focuses on the use of precision techniques remote sensing and GIS technologies for the quantification of various natural and environmental hazards along with the capacity and sustainable mitigation strategies for resilient societies   *Metaheuristic and Machine Learning Optimization Strategies for Complex Systems* R., Thanigaivelan,M., Suchithra,S., Kaliappan,Mothilal, T.,2024-07-17 In contemporary engineering domains optimization and decision making issues are crucial Given the vast amounts of available data processing times and memory usage can be substantial Developing and implementing novel heuristic algorithms is time consuming yet even minor improvements in solutions can significantly reduce computational costs In such scenarios the creation of heuristics and metaheuristic algorithms has proven advantageous The convergence of machine learning and

metaheuristic algorithms offers a promising approach to address these challenges Metaheuristic and Machine Learning Optimization Strategies for Complex Systems covers all areas of comprehensive information about hyper heuristic models hybrid meta heuristic models nature inspired computing models and meta heuristic models The key contribution of this book is the construction of a hyper heuristic approach for any general problem domain from a meta heuristic algorithm Covering topics such as cloud computing internet of things and performance evaluation this book is an essential resource for researchers postgraduate students educators data scientists machine learning engineers software developers and engineers policy makers and more **Deep Learning and Its Applications for Vehicle Networks** Fei Hu,Iftikhar Rasheed,2023-05-12 Deep Learning DL is an effective approach for AI based vehicular networks and can deliver a powerful set of tools for such vehicular network dynamics In various domains of vehicular networks DL can be used for learning based channel estimation traffic flow prediction vehicle trajectory prediction location prediction based scheduling and routing intelligent network congestion control mechanism smart load balancing and vertical handoff control intelligent network security strategies virtual smart and efficient resource allocation and intelligent distributed resource allocation methods This book is based on the work from world famous experts on the application of DL for vehicle networks It consists of the following five parts I DL for vehicle safety and security This part covers the use of DL algorithms for vehicle safety or security II DL for effective vehicle communications Vehicle networks consist of vehicle to vehicle and vehicle to roadside communications This part covers how Intelligent vehicle networks require a flexible selection of the best path across all vehicles adaptive sending rate control based on bandwidth availability and timely data downloads from a roadside base station III DL for vehicle control The myriad operations that require intelligent control for each individual vehicle are discussed in this part This also includes emission control which is based on the road traffic situation the charging pile load is predicted through DL andvehicle speed adjustments based on the camera captured image analysis IV DL for information management This part covers some intelligent information collection and understanding We can use DL for energy saving vehicle trajectory control based on the road traffic situation and given destination information we can also natural language processing based on DL algorithm for automatic internet of things IoT search during driving V Other applications This part introduces the use of DL models for other vehicle controls Autonomous vehicles are becoming more and more popular in society The DL and its variants will play greater roles in cognitive vehicle communications and control Other machine learning models such as deep reinforcement learning will also facilitate intelligent vehicle behavior understanding and adjustment This book will become a valuable reference to your understanding of this critical field IoT and AI in Agriculture Tofael Ahamed,2023-04-10 This book reviews recent innovations in the smart agriculture space that use the Internet of Things IoT and sensing to deliver Artificial Intelligence AI solutionsto agricultural productivity in the agricultural production hubs In this regard South and Southeast Asia are one of the major agricultural hubs of the world facing

challenges of climate change and feeding the fast growing population To address such challenges a transboundary approach along with AI and BIG data for bioinformatics are required to increase yield and minimize pre and post harvest losses in intangible climates to drive the sustainable development goal SDG for feeding a major part of the 9 billion population by 2050 Society 5 0 SDG 1 2 Therefore this book focuses on the solution through smart IoT and AI based agriculture including pest infestation and minimizing agricultural inputs for in house and fields production such as light water fertilizer and pesticides to ensure food security aligns with environmental sustainability It provides a sound understanding for creating new knowledge in line with comprehensive research and education orientation on how the deployment of tiny sensors AI Machine Learning ML controlled UAVs and IoT setups for sensing tracking collection processing and storing information over cloud platforms for nurturing and driving the pace of smart agriculture in this current time The book will appeal to several audiences and the contents are designed for researchers graduates and undergraduate students working in any area of machine learning deep learning in agricultural engineering smart agriculture and environmental science disciplines Utmost care has been taken to present a varied range of resource areas along with immense insights into the impact and scope of IoT AI and ML in the growth of intelligent digital farming and smart agriculture which will give comprehensive information to the targeted readers   Aviation Industry Trends – Technology Advancements, Regulations, and Sustainability Zindoga Mukandavire,Hannah Al Ali,Kaitano Dube,2025-10-12 Aviation Industry Trends Technology Advancements Regulations and Sustainability The 5th International Aviation Management Conference 2024 offers readers a comprehensive guide to sustainable aviation s current and future landscape Emerging from the 5th International Aviation Management Conference IAMC the proceedings provide an in depth understanding of the transformative developments reshaping the skies and how the industry is responding to the demands of governance in an era of technological sophistication The book examines the aviation industry s pivot towards sustainability and strategies intended to meet the ambitious goal of carbon neutrality It covers cutting edge advancements in aircraft technology exploring the electrification of planes the potential of hybrid systems and the growing realm of autonomous flight It looks at the groundbreaking improvements in aerodynamics the use of advanced lightweight materials and the revolutionary engine designs that set new fuel efficiency standards This volume is an essential read for industry professionals policymakers students researchers and aviation enthusiasts It provides a global view of how the industry can thrive while grounding its practices in ecological stewardship and regulatory compliance   **Mastering Generative AI Systems Engineering** Praveen Kumar,2026-02-24 Create Imagine and Innovate with the Power of Generative AI Key Features Get a free one month digital subscription to www avaskillshelf com Comprehensive coverage of generative models from VAEs and GANs to Diffusion and LLMs Hands on projects using PyTorch TensorFlow LangChain and modern AI toolchains Book Description Generative AI is rapidly transforming how organizations create content build intelligent systems and automate complex tasks Understanding how

these models work and how to build them is now a career defining skill for developers and data professionals Mastering Generative AI Systems Engineering begins with the core foundations of generative AI You will explore the essential mathematics latent spaces probability concepts and neural network principles behind VAEs and GANs The book then guides you through advanced systems such as CycleGANs StyleGANs and cutting edge Diffusion Models the engines behind today s most powerful generative tools What you will learn Design train and fine tune state of the art GANs VAEs and diffusion models Build powerful LLM and GPT based applications using RAG LangChain and agentic workflows Apply core mathematical concepts to understand and optimize generative architectures Who is This Book For This book is designed for machine learning engineers data scientists AI developers NLP engineers computer vision specialists research scientists and software engineers aiming to advance their expertise in generative AI Readers should have the basic knowledge of Python deep learning fundamentals and familiarity with neural networks to fully benefit from the hands on projects and real world case studies Table of Contents 1 Introduction to Generative Models 2 Mathematical Foundations 3 Introduction to Variational Autoencoders 4 Introduction to Generative Adversarial Networks 5 Deep Convolutional GANs 6 Conditional Generative Adversarial Networks 7 Cycle GANs 8 Style GANs 9 Variational Autoencoders Revisited VAE and CVAE 10 Diffusion Models 11 Data Augmentation with Generative Models 12 Generative Models in Natural Language Processing 13 Model Evaluation and Optimization 14 Deployment of Generative Models 15 Ethical Considerations and Future Directions 16 Introduction to Large Language Models 17 Generative Pre Trained Transformers 18 Langchain Building AI Powered Applications 19 Prompt Engineering RAG and Fine Tuning 20 Advanced Concepts 21 Best Practices for Generative Models Index **Road and Airfield Pavement Technology** H. R. Pasindu,Saman Bandara,W. K. Mampearachchi,T. F. Fwa,2022-01-30 This volume gathers the latest advances innovations and applications in the field of pavement technology presented at the 12th International Conference in Road and Airfield Pavement Technology ICPT hosted by the University of Moratuwa Sri Lanka and held on July 14 16 2021 It covers topics such as pavement design evaluation and construction pavement materials characterization sustainability in pavement engineering pavement maintenance and rehabilitation techniques pavement management systems and financing transportation safety law and enforcement related to pavement engineering pavement drainage and erosion control GIS applications quarry material assessment pavement instrumentation IT and AI applications in pavement Featuring peer reviewed contributions by leading international researchers and engineers the book is a timely and highly relevant resource for materials scientists and engineers interested in pavement engineering *Machine Learning* Ryszard Stanisław Michalski,Jaime G. Carbonell,Tom M. Mitchell,1983 **Methodologies for Intelligent Systems, ...** ,1994 Readings in Knowledge Acquisition and Learning Bruce G. Buchanan,David C. Wilkins,1993 Readings in Knowledge Acquisition and Learning collects the best of the artificial intelligence literature from the fields of machine learning and knowledge acquisition This book brings together the perspectives on constructing knowledge based systems

from these two historically separate subfields of artificial intelligence **Congressional Record** United States. Congress,1972 *Proceedings of the Twenty-second AAAI Conference on Artificial Intelligence* ,2007 *Lines of Thinking, Skills, Emotion, Creative Processes, Individual Differences and Teaching Thinking* K. J. Gilhooly,1990-02-02 Part of a two volume work taken from the proceedings of the International Conference on Thinking held at the University of Aberdeen in August 1988 this book explores current empirical and theoretical research in human thinking This volume particularly considers such complex processes as skilled thinking emotion and thought creative processes individual differences and teaching thinking The book has been organized into themes so that topics of increasing complexity are considered in the later sections of text **Mathematical Reviews** ,2002 **Utility Patterns as Criteria for Efficient Generalization Learning** Larry Rendell,University of Illinois at Urbana-Champaign. Department of Computer Science,1985 **American Scientist** ,1942 Proceedings of the ... International Joint Conference on Artificial Intelligence ,1999 *Information Technology and Libraries* ,1984 AI Magazine ,1992

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