Programme Overview

M.Tech.
Artificial Intelligence
& Machine Learning

for Working Professionals

Machine Learning M Tech

IEEE Singapore Section,IEEE Singapore Section. Computer Chapter

Machine Learning M Tech:

Handbook of Research on AI and Machine Learning Applications in Customer Support and Analytics Hossain, Md Shamim,Ho, Ree Chan,Trajkovski, Goran,2023-05-02 In the modern data driven era artificial intelligence AI and machine learning ML technologies that allow a computer to mimic intelligent human behavior are essential for organizations to achieve business excellence and assist organizations in extracting useful information from raw data AI and ML have existed for decades but in the age of big data this sort of analysis is in higher demand than ever especially for customer support and analytics The Handbook of Research on AI and Machine Learning Applications in Customer Support and Analytics investigates the applications of AI and ML and how they can be implemented to enhance customer support and analytics at various levels of organizations This book is ideal for marketing professionals managers business owners researchers practitioners academicians instructors university libraries and students and covers topics such as artificial intelligence machine learning supervised learning deep learning customer sentiment analysis data mining neural networks and business analytics *Machine Learning* Shraban Kumar Apat,Bhavani Sankar Panda,2022-08-05 Machine learning has got one of the most significant points inside advancement associations that are searching for creative approaches to use information advantages to help the business increase another degree of comprehension Why include machine learning into the mix With the appropriate machine learning models associations can constantly anticipate changes in the business with the goal that they are best ready to foresee what s straightaway As data is constantly added the machine learning models guarantee that the arrangement is continually refreshed The worth is direct If you utilize the most suitable and continually changing information sources with machine learning you have the chance to foresee what s to come Machine learning is a type of AI that empowers a framework to gain from data as opposed to through unequivocal programming Not with standing machine learning is certainly not a basic procedure **Machine Learning Approaches for Urban Computing** Mainak Bandyopadhyay,Minakhi Rout,Suresh Chandra Satapathy,2021-04-28 This book discusses various machine learning applications and models developed using heterogeneous data which helps in a comprehensive prediction optimization association analysis cluster analysis and classification related applications for various activities in urban area It details multiple types of data generating from urban activities and suitability of various machine learning algorithms for handling urban data The book is helpful for researchers academicians faculties scientists and geospatial industry professionals for their research work and sets new ideas in the field of urban computing **Introduction And Fundamental Concepts Of Machine Learning** Dr. P. Sumithabhashini,Dr. Kasa Madhavi,Mr. Ramesh Alladi,Mr. Ch. Vijaya Kumar,2022-12-13 The field of machine learning is gaining a lot of attention around the world both in the research community and in the business world Learning by machine is becoming increasingly important in many aspects of modern life Deep learning neural networks have been responsible for several recent technological advances including those in the fields of computer vision voice processing

machine translation and reinforcement learning As a direct consequence of this neural networks have developed into an indispensable instrument in the toolset of every data scientist This book explains neural networks including what they are why they are effective algorithms and why they have the structure that they do It starts by discussing the fundamental elements that make up a neural network i e nodes weights activation functions biases and layers This book is meant to serve as an introduction to machine learning which is a field that is quickly becoming more significant in today s technological landscape Utilize to the fullest the vast potential that is afforded by various methodologies such as predictive analysis classifiers clustering and Natural Language Processing NLP Since mathematical expertise is required not only for describing the algorithms but also for demonstrating to the reader how and where to set the hyperparameters for maximum accuracy it is essential to have at least a surface level understanding of the subject matter This is because mathematical expertise is required It should not come as a surprise that there are far too many elements to this issue for all of them to be covered There are far too many facets to be included   Machine Learning for Contextual Intelligence Systems Dr. Chakunta Venkata Guru Rao, Dr. Ravi Seeta Sireesha,2026-02-19 The rapid evolution of artificial intelligence has brought contextual intelligence to the forefront of intelligent system design Traditional machine learning models while powerful often operate in isolation from situational environmental and temporal factors that influence real world decision making This book Machine Learning for Contextual Intelligence Systems explores how machine learning techniques can be designed adapted and optimized to perceive interpret and respond intelligently to context aware information The primary objective of this book is to provide a comprehensive understanding of the theoretical foundations and practical implementations of contextual intelligence using machine learning It covers essential concepts such as context modelling representation learning under uncertainty adaptive inference and optimization techniques that enable systems to evolve dynamically with changing environments Emphasis is placed on integrating supervised unsupervised reinforcement and hybrid learning approaches to build intelligent systems capable of situational awareness and adaptive behaviour Each chapter is carefully structured to guide readers from fundamental principles to advanced methodologies supported by illustrative examples algorithms and real world application scenarios The book highlights how contextual intelligence enhances decision making in diverse domains such as healthcare smart environments education agriculture transportation and cyber physical systems By bridging theory with practice the content enables readers to understand the trade offs involved in accuracy adaptability scalability and computational efficiency This book is intended to serve as a valuable resource for undergraduate and postgraduate students researchers and industry professionals seeking to develop intelligent systems that go beyond static learning models In an era where intelligent systems are expected to operate autonomously and responsibly in complex environments we hope this work inspires further research and innovation in the field of machine learning driven contextual intelligence systems

Handbook of Research on Emerging Trends and Applications of Machine Learning Solanki, Arun,Kumar,

Sandeep,Nayyar, Anand,2019-12-13 As today s world continues to advance Artificial Intelligence AI is a field that has become a staple of technological development and led to the advancement of numerous professional industries An application within AI that has gained attention is machine learning Machine learning uses statistical techniques and algorithms to give computer systems the ability to understand and its popularity has circulated through many trades Understanding this technology and its countless implementations is pivotal for scientists and researchers across the world The Handbook of Research on Emerging Trends and Applications of Machine Learning provides a high level understanding of various machine learning algorithms along with modern tools and techniques using Artificial Intelligence In addition this book explores the critical role that machine learning plays in a variety of professional fields including healthcare business and computer science While highlighting topics including image processing predictive analytics and smart grid management this book is ideally designed for developers data scientists business analysts information architects finance agents healthcare professionals researchers retail traders professors and graduate students seeking current research on the benefits implementations and trends of machine learning **Reshaping Environmental Science Through Machine Learning and IoT** Gupta, Rajeev Kumar,Jain, Arti,Wang, John,Pateriya, Rajesh Kumar,2024-05-06 In the face of escalating environmental challenges such as climate change air and water pollution and natural disasters traditional approaches to understanding and addressing these issues have yet to be proven sufficient Academic scholars are compelled to seek innovative solutions that marry digital intelligence and natural ecosystems Reshaping Environmental Science Through Machine Learning and IoT serves as a comprehensive exploration into the transformative potential of Machine Learning ML and the Internet of Things IoT to address critical environmental challenges The book establishes a robust foundation in ML and IoT explaining their relevance to environmental science As the narrative unfolds it delves into diverse applications providing theoretical insights alongside practical knowledge From interpreting weather patterns to predicting air and water quality the book navigates through the intricate web of environmental complexities Notably it unveils approaches to disaster management waste sorting and climate change monitoring showcasing the symbiotic relationship between digital intelligence and natural ecosystems This book is ideal for audiences from students and researchers to data scientists and disaster management professionals with a nuanced understanding of IoT ML and Artificial Intelligence AI Machine Learning Applications in Non-Conventional Machining Processes Bose, Goutam Kumar,Pain, Pritam,2021-02-05 Traditional machining has many limitations in today s technology driven world which has caused industrial professionals to begin implementing various optimization techniques within their machining processes The application of methods including machine learning and genetic algorithms has recently transformed the manufacturing industry and created countless opportunities in non traditional machining methods Significant research in this area however is still considerably lacking Machine Learning Applications in Non Conventional Machining Processes is a collection of innovative research on the advancement of

intelligent technology in industrial environments and its applications within the manufacturing field While highlighting topics including evolutionary algorithms micro machining and artificial neural networks this book is ideally designed for researchers academicians engineers managers developers practitioners industrialists and students seeking current research on intelligence based machining processes in today s technology driven market **Applied Machine Learning** M. Gopal,2019-06-07 Cutting edge machine learning principles practices and applications This comprehensive textbook explores the theoretical under pinnings of learning and equips readers with the knowledge needed to apply powerful machine learning techniques to solve challenging real world problems Applied Machine Learning shows step by step how to conceptualize problems accurately represent data select and tune algorithms interpret and analyze results and make informed strategic decisions Presented in a non rigorous mathematical style the book covers a broad array of machine learning topics with special emphasis on methods that have been profitably employed Coverage includes Supervised learning Statistical learning Learning with support vector machines SVM Learning with neural networks NN Fuzzy inference systems Data clustering Data transformations Decision tree learning Business intelligence Data mining And much more **Machine Learning** Ryszard Stanisław Michalski,Jaime G. Carbonell,Tom M. Mitchell,1983 **Review on use of Reinforcement Learning in Artificial Intelligence** Mehdi Samieiyeganeh,Parisa Bahraminikoo,G. Praveen Babu,2012-06-15 Research Paper postgraduate from the year 2012 in the subject Computer Sciences Artificial Intelligence grade none Jawaharlal Nehru University language English abstract Human started making machinery that can do the job for them The technology developed so much that it started involving many other branches of engineering such as electronics robotics etc This eventually led to much more complex and smart machinery involving Artificial Intelligence Reinforcement Learning is a type of Machine Learning and thereby also a branch of Artificial Intelligence It allows machines and software agents to automatically determine the ideal behavior within a specific context in order to maximize its performance Reinforcement Learning RL comes from the animal learning theory RL does not need prior knowledge it can autonomously get optional policy with the knowledge obtained by trial and error and continuously interact with dynamic environment As a matter of fact Reinforcement Learning is defined by a specific type of problem and all its solutions are classed as Reinforcement Learning algorithms In the problem an agent is supposed decide the best action to select based on its current state When this step is repeated the problem is known as a Markov Decision Process A Markov Decision Process is a discrete time stochastic control process At each time step the process is in some state s and the decision maker may choose any action that is available in state s Markov Decision Process provides a mathematical framework for modeling decision making in situations where outcomes are partly random and partly under the control of a decision maker **Information Technology** ,1992 **Introduction to Machine Learning** Aditya Tandon,Nagesh Salimath,Dr. Surbhi Bhatia,Kamalakanta Sethi,Bata Krishna Tripathy,2019-11-28 Machine learning is one of the fastest growing areas of computer science with far reaching applications The aim of this textbook is to introduce machine

learning and the algorithmic paradigms it offers in a principled way The book provides an extensive theoretical account of the fundamental ideas underlying machine learning and the mathematical derivations that transform these principles into practical algorithms Following a presentation of the basics of the field the book covers a wide array of central topics that have not been addressed by previous textbooks These include a discussion of the computational complexity of learning and the concepts of convexity and stability important algorithmic paradigms including stochastic gradient descent neural networks and structured output learning and emerging theoretical concepts such as the PAC Bayes approach and compression based bounds Designed for an advanced undergraduate or beginning graduate course the text makes the fundamentals and algorithms of machine learning accessible to students and nonexpert readers in statistics computer science mathematics and engineering   *Machine Learning, ECML- ... ,2004*   Machine Learning Ivan Bratko,Sašo Ožeroski,1999   **Recent Advances in Natural Language Processing** ,2003 Contributed papers presented at an ongoing International Conference on Natural Language Processing held at Mysore 2003   Machine Learning Richard Forsyth,1989 Presents results of research into computer systems that can improve their own performance For undergraduates graduates and professionals intending to write or use such systems The various perspectives of over a dozen contributors are abstracted into the unifying principle generate test which makes possible a provisional taxonomy of machine learning algorithms The sections cover a background to induction biologically inspired systems automated discovery and long term perspectives The paper edition 29 95 was not seen Annotation copyrighted by Book News Inc Portland OR   **SIGKDD Explorations** ,2000   **Proceedings of 1996 IEEE Second International Conference on Algorithms & Architectures for Parallel Processing, ICA3PP '96** IEEE Singapore Section,IEEE Singapore Section. Computer Chapter,1996 Lower costs and higher degrees of integration in chip architecture that allow parallel processing are described The impact on parallel processing algorithms is examined with offerred solutions Advantages of parallel processing for large computational problems are examined   Machine Learning Lorenza Saitta,1996

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