Fundamentals of Artificial Intelligence

PROBLEM SOLVING AND AUTOMATED REASONING

Miroslav Kubat

Fundamentals Of Artificial Intelligence Introduction To Non Linear

Giuseppe Bonaccorso,Armando Fandango,Rajalingappaa Shanmugamani

Fundamentals Of Artificial Intelligence Introduction To Non Linear:

Kickstart Artificial Intelligence Fundamentals: Master Machine Learning, Neural Networks, and Deep Learning from Basics to Build Modern AI Solutions with Python and TensorFlow-Keras Dr. S.Mahesh,2025-03-29 Master AI Fundamentals and Build Real World Machine Learning and Deep Learning Solutions Key Features Hands on AI guide with Python TensorFlow and Keras implementations Step by step walkthroughs of Machine Learning Artificial Neural Networks ANN Convolutional Neural Networks CNN Recurrent Neural Networks RNN and Long Short Term Memory LSTM models Bridges AI theory with real world applications and coding exercises Book DescriptionAI is transforming industries driving innovation and shaping the future of technology A strong foundation in AI fundamentals is essential for anyone looking to stay ahead in this rapidly evolving field Kickstart Artificial Intelligence Fundamentals is a comprehensive companion designed to demystify core AI concepts covering Machine Learning Deep Learning and Neural Networks Tailored for all AI enthusiasts this book provides hands on Python implementation using the TensorFlow Keras framework ensuring a seamless learning experience from theory to practice Bridging the gap between concepts and real world applications this book offers intuitive explanations mathematical foundations and practical use cases Readers will explore supervised and unsupervised Machine Learning models master Convolutional Neural Networks for image classification and leverage Long Short Term Memory networks for time series forecasting Each chapter includes coding examples and guided exercises making it an invaluable resource for both beginners and advanced learners Beyond technical expertise this book explores emerging trends like Generative AI and ethical considerations in AI preparing readers for the challenges and opportunities in the field This book will provide you the essential knowledge and hands on experience to stay competitive Don t get left behind embrace AI and future proof your career today What you will learn Build and train machine learning models for real world datasets Apply neural networks to classification and regression tasks Implement CNNs and LSTMs for vision and sequence modeling Solve AI problems using Python TensorFlow and Keras Fine tune pre trained models for domain specific applications Explore generative AI for creative and industrial use cases   **Introduction to Artificial Intelligence: Understanding the Basics: A Comprehensive Guide to Artificial Intelligence** Konstantin Titov,2024-01-06 Definition and History of AI Explore the origins and evolution of AI from its humble beginnings to its current transformative impact Types of AI Delve into the different types of AI from Narrow AI and General AI to the intriguing realm of Superintelligent AI Data s Crucial Role Understand the importance of data in AI its various types Structured Unstructured Semi Structured and how it drives AI innovation Fundamentals of Machine Learning Uncover the core concepts of machine learning from Supervised vs Unsupervised Learning to Reinforcement Learning and Common Algorithms Neural Networks and Deep Learning Learn the basics of neural networks explore the power of deep learning and grasp the significance of Convolutional Neural Networks CNNs and Recurrent Neural Networks RNNs Natural Language Processing NLP Gain insights into how AI understands

language including Sentiment Analysis Chatbots and Translation Computer Vision Discover the wonders of image recognition and object detection along with the intricacies of Facial Recognition Technology Robotics and Autonomous Systems Explore AI s role in robotics from AI driven robots to self driving cars and drones Ethical Considerations Delve into the ethical aspects of AI addressing bias fairness privacy and security concerns Real World Applications Witness AI s impact across industries such as healthcare finance and retail and glimpse into the future of AI in various sectors Emerging Trends Stay ahead of the curve by exploring quantum computing s synergy with AI and the convergence of AI with the Internet of Things IoT Career Paths Learn about the diverse roles in AI and the essential skills required as well as the exciting future of work in the AI field Whether you re a fan of AI a student eager to learn or a seasoned professional Introduction to Artificial Intelligence Understanding the Basics provides you with the essential knowledge to grasp appreciate and effectively navigate the AI revolution Get ready for an exciting adventure into the fascinating world of artificial intelligence *Philosophy and Theory of Artificial Intelligence* Vincent C. Müller,2012-08-23 Can we make machines that think and act like humans or other natural intelligent agents The answer to this question depends on how we see ourselves and how we see the machines in question Classical AI and cognitive science had claimed that cognition is computation and can thus be reproduced on other computing machines possibly surpassing the abilities of human intelligence This consensus has now come under threat and the agenda for the philosophy and theory of AI must be set anew re defining the relation between AI and Cognitive Science We can re claim the original vision of general AI from the technical AI disciplines we can reject classical cognitive science and replace it with a new theory e g embodied or we can try to find new ways to approach AI for example from neuroscience or from systems theory To do this we must go back to the basic questions on computing cognition and ethics for AI The 30 papers in this volume provide cutting edge work from leading researchers that define where we stand and where we should go from here **Artificial Intelligence Basics** Tom Taulli,2019-08-01 Artificial intelligence touches nearly every part of your day While you may initially assume that technology such as smart speakers and digital assistants are the extent of it AI has in fact rapidly become a general purpose technology reverberating across industries including transportation healthcare financial services and many more In our modern era an understanding of AI and its possibilities for your organization is essential for growth and success Artificial Intelligence Basics has arrived to equip you with a fundamental timely grasp of AI and its impact Author Tom Taulli provides an engaging non technical introduction to important concepts such as machine learning deep learning natural language processing NLP robotics and more In addition to guiding you through real world case studies and practical implementation steps Taulli uses his expertise to expand on the bigger questions that surround AI These include societal trends ethics andfuture impact AI will have on world governments company structures and daily life Google Amazon Facebook and similar tech giants are far from the only organizations on which artificial intelligence has had and will continue to have an incredibly significant result AI is the present and the future of your business as well as your

home life Strengthening your prowess on the subject will prove invaluable to your preparation for the future of tech and Artificial Intelligence Basics is the indispensable guide that you ve been seeking What You Will Learn Study the core principles for AI approaches such as machine learning deep learning and NLP Natural Language Processing Discover the best practices to successfully implement AI by examining case studies including Uber Facebook Waymo UiPath and Stitch Fix Understand how AI capabilities for robots can improve business Deploy chatbots and Robotic Processing Automation RPA to save costs and improve customer service Avoid costly gotchas Recognize ethical concerns and other risk factors of using artificial intelligence Examine the secular trends and how they may impact your business Who This Book Is For Readers without a technical background such as managers looking to understand AI to evaluate solutions **A First Course in Artificial Intelligence** Osondu Oguike,2021-07-14 The importance of Artificial Intelligence cannot be over emphasised in current times where automation is already an integral part of industrial and business processes A First Course in Artificial Intelligence is a comprehensive textbook for beginners which covers all the fundamentals of Artificial Intelligence Seven chapters divided into thirty three units introduce the student to key concepts of the discipline in simple language including expert system natural language processing machine learning machine learning applications sensory perceptions computer vision tactile perception and robotics Each chapter provides information in separate units about relevant history applications algorithm and programming with relevant case studies and examples The simplified approach to the subject enables beginners in computer science who have a basic knowledge of Java programming to easily understand the contents The text also introduces Python programming language basics with demonstrations of natural language processing It also introduces readers to the Waikato Environment for Knowledge Analysis WEKA as a tool for machine learning The book is suitable for students and teachers involved in introductory courses in undergraduate and diploma level courses which have appropriate modules on artificial intelligence **Artificial Intelligence for Power Electronics** Ahteshamul Haque,Saad Mekhilef,Azra Malik,2025-08-25 Thorough review of how artificial intelligence can enhance the design control and optimization of power electronics systems Artificial Intelligence for Power Electronics provides a comprehensive overview of the intersection between artificial intelligence AI and the field of power electronics exploring how AI can revolutionize and enhance the design control and optimization of power electronics systems The book covers the fundamentals of AI the fundamentals of power electronics and the challenges the field faces in design to production and the solutions of these challenges through AI methods Example solutions along with Q A review sections are included throughout the text with coverage of both Python and MATLAB Some of the topics discussed in Artificial Intelligence for Power Electronics include Supervised unsupervised and reinforcement machine learning and the role of data in training machine learning models Techniques for AI data collection in power electronics and how to clean normalize and handle missing values of data Optimization techniques such as Particle Swarm Optimization and Ant Colony Optimization Detection techniques for identifying faults and anomalies and

clustering algorithms to group similar operational behavior Essential Python libraries for machine learning and how to perform machine learning on a Raspberry Pi Delivering an industry specific approach to AI applications Artificial Intelligence for Power Electronics is a helpful reference for undergraduate postgraduate and PhD students in electrical electronic and computer engineering Mechanical engineers and other industry professionals may also find it valuable *Python: Advanced Guide to Artificial Intelligence* Giuseppe Bonaccorso,Armando Fandango,Rajalingappaa Shanmugamani,2018-12-21 Demystify the complexity of machine learning techniques and create evolving clever solutions to solve your problems Key FeaturesMaster supervised unsupervised and semi supervised ML algorithms and their implementation Build deep learning models for object detection image classification similarity learning and moreBuild deploy and scale end to end deep neural network models in a production environmentBook Description This Learning Path is your complete guide to quickly getting to grips with popular machine learning algorithms You ll be introduced to the most widely used algorithms in supervised unsupervised and semi supervised machine learning and learn how to use them in the best possible manner Ranging from Bayesian models to the MCMC algorithm to Hidden Markov models this Learning Path will teach you how to extract features from your dataset and perform dimensionality reduction by making use of Python based libraries You ll bring the use of TensorFlow and Keras to build deep learning models using concepts such as transfer learning generative adversarial networks and deep reinforcement learning Next you ll learn the advanced features of TensorFlow1 x such as distributed TensorFlow with TF clusters deploy production models with TensorFlow Serving You ll implement different techniques related to object classification object detection image segmentation and more By the end of this Learning Path you ll have obtained in depth knowledge of TensorFlow making you the go to person for solving artificial intelligence problems This Learning Path includes content from the following Packt products Mastering Machine Learning Algorithms by Giuseppe BonaccorsoMastering TensorFlow 1 x by Armando FandangoDeep Learning for Computer Vision by Rajalingappaa ShanmugamaniWhat you will learnExplore how an ML model can be trained optimized and evaluatedWork with Autoencoders and Generative Adversarial NetworksExplore the most important Reinforcement Learning techniquesBuild end to end deep learning CNN RNN and Autoencoders modelsWho this book is for This Learning Path is for data scientists machine learning engineers artificial intelligence engineers who want to delve into complex machine learning algorithms calibrate models and improve the predictions of the trained model You will encounter the advanced intricacies and complex use cases of deep learning and AI A basic knowledge of programming in Python and some understanding of machine learning concepts are required to get the best out of this Learning Path   Artificial Intelligence and Machine Learning Fundamentals Zsolt Nagy,2018-12-12 Create AI applications in Python and lay the foundations for your career in data science Key FeaturesPractical examples that explain key machine learning algorithmsExplore neural networks in detail with interesting examplesMaster core AI concepts with engaging activitiesBook Description Machine learning and neural networks are pillars

on which you can build intelligent applications Artificial Intelligence and Machine Learning Fundamentals begins by introducing you to Python and discussing AI search algorithms You will cover in depth mathematical topics such as regression and classification illustrated by Python examples As you make your way through the book you will progress to advanced AI techniques and concepts and work on real life datasets to form decision trees and clusters You will be introduced to neural networks a powerful tool based on Moore s law By the end of this book you will be confident when it comes to building your own AI applications with your newly acquired skills What you will learnUnderstand the importance principles and fields of AIImplement basic artificial intelligence concepts with PythonApply regression and classification concepts to real world problemsPerform predictive analysis using decision trees and random forestsCarry out clustering using the k means and mean shift algorithmsUnderstand the fundamentals of deep learning via practical examplesWho this book is for Artificial Intelligence and Machine Learning Fundamentals is for software developers and data scientists who want to enrich their projects with machine learning You do not need any prior experience in AI However it s recommended that you have knowledge of high school level mathematics and at least one programming language preferably Python

Assessment of Tensegrity Structures Paulina Obara,2025-06-19 This book enables a proper understanding of tensegrity structures It contains both theoretical background and examples First a geometrically non linear model and the methods used to evaluate the behavior of tensegrity structures are explained Next a broad spectrum of different planar and spatial design solutions is considered Assessment of Tensegrity Structures is very logically organized in line with its down to earth subject beginning with the simplest two dimensional structure for which solutions can be presented in explicit form and ending with more complex tensegrity structures used in civil engineering such as domes towers and plates This book is designed for everyone who is interested in tensegrity systems from beginners to those who want to deepen their knowledge of them The Open Access version of this book available at http www taylorfrancis com has been made available under a Creative Commons Attribution CC BY 4 0 license   **Essentials of Artificial Intelligence** Matt Ginsberg,2012-12-02 Since its publication Essentials of Artificial Intelligence has been adopted at numerous universities and colleges offering introductory AI courses at the graduate and undergraduate levels Based on the author s course at Stanford University the book is an integrated cohesive introduction to the field The author has a fresh entertaining writing style that combines clear presentations with humor and AI anecdotes At the same time as an active AI researcher he presents the material authoritatively and with insight that reflects a contemporary first hand understanding of the field Pedagogically designed this book offers a range of exercises and examples   ESSENTIALS OF AI AND SOFT COMPUTING SHARMA, ANUJ,2024-09-25 The book has been primarily designed for the beginners in the subject It has been written from the students perspective making it easy to understand The contents are briefly explained with the help of examples in a direct and a pragmatic approach Each chapter begins with the basics and is standalone the dependence of the chapters on previous concepts has

been minimized The text is aimed to balance the mix of notation and words in mathematical statements Artificial Intelligence and Soft Computing topics are often expressed in terms of algorithms hence key algorithms are introduced with their explanations These algorithms are expressed in words and in an easy to understand form of structured psuedocodes The students should easily grasp the psuedocodes used in the text to express the algorithms regardless of whether they have formally studied programming languages KEY FEATURES Short and concise explanation with examples Direct and pragmatic writing style Structured psuedocodes for explaining algorithms Balanced mix of notation and words in mathematical statements Meticulously organised chapter for effective teaching and learning Chapter end Exercises to help students practice and assess their knowledge TARGET AUDIENCE BCA and MCA B Sc Computer Science and Information Technology B Tech Computer Science Engineering and Information Technology **The The Applied Artificial Intelligence Workshop** Anthony So,William So,Zsolt Nagy,2020-07-22 With knowledge and information shared by experts take your first steps towards creating scalable AI algorithms and solutions in Python through practical exercises and engaging activities Key FeaturesLearn about AI and ML algorithms from the perspective of a seasoned data scientistGet practical experience in ML algorithms such as regression tree algorithms clustering and moreDesign neural networks that emulate the human brainBook Description You already know that artificial intelligence AI and machine learning ML are present in many of the tools you use in your daily routine But do you want to be able to create your own AI and ML models and develop your skills in these domains to kickstart your AI career The Applied Artificial Intelligence Workshop gets you started with applying AI with the help of practical exercises and useful examples all put together cleverly to help you gain the skills to transform your career The book begins by teaching you how to predict outcomes using regression You ll then learn how to classify data using techniques such as k nearest neighbor KNN and support vector machine SVM classifiers As you progress you ll explore various decision trees by learning how to build a reliable decision tree model that can help your company find cars that clients are likely to buy The final chapters will introduce you to deep learning and neural networks Through various activities such as predicting stock prices and recognizing handwritten digits you ll learn how to train and implement convolutional neural networks CNNs and recurrent neural networks RNNs By the end of this applied AI book you ll have learned how to predict outcomes and train neural networks and be able to use various techniques to develop AI and ML models What you will learnCreate your first AI game in Python with the minmax algorithmImplement regression techniques to simplify real world dataExperiment with classification techniques to label real world dataPerform predictive analysis in Python using decision trees and random forestsUse clustering algorithms to group data without manual supportLearn how to use neural networks to process and classify labeled imagesWho this book is for The Applied Artificial Intelligence Workshop is designed for software developers and data scientists who want to enrich their projects with machine learning Although you do not need any prior experience in AI it is recommended that you have knowledge of high school level mathematics and at least

one programming language preferably Python Although this is a beginner s book experienced students and programmers can improve their Python skills by implementing the practical applications given in this book **Artificial Intelligence and Data Analytics for Energy Exploration and Production** Fred Aminzadeh,Cenk Temizel,Yasin Hajizadeh,2022-08-26 ARTIFICAL INTELLIGENCE AND DATA ANALYTICS FOR ENERGY EXPLORATION AND PRODUCTION This groundbreaking new book is written by some of the foremost authorities on the application of data science and artificial intelligence techniques in exploration and production in the energy industry covering the most comprehensive and updated new processes concepts and practical applications in the field The book provides an in depth treatment of the foundations of Artificial Intelligence AI Machine Learning and Data Analytics DA It also includes many of AI DA applications in oil and gas reservoirs exploration development and production The book covers the basic technical details on many tools used in smart oil fields This includes topics such as pattern recognition neural networks fuzzy logic evolutionary computing expert systems artificial intelligence machine learning human computer interface natural language processing data analytics and next generation visualization While theoretical details will be kept to the minimum these topics are introduced from oil and gas applications viewpoints In this volume many case histories from the recent applications of intelligent data to a number of different oil and gas problems are highlighted The applications cover a wide spectrum of practical problems from exploration to drilling and field development to production optimization artificial lift and secondary recovery Also the authors demonstrate the effectiveness of intelligent data analysis methods in dealing with many oil and gas problems requiring combining machine and human intelligence as well as dealing with linguistic and imprecise data and rules

Understanding Artificial Intelligence Ralf T. Kreutzer,2024-12-11 This book on Artificial Intelligence AI explores its transformative potential for individuals and businesses It covers AI basics and its applications across various industries presenting AI as a foundational technology that will impact all aspects of life and the economy The author emphasizes the need for responsible AI usage and introduces the concept of the AI Journey for businesses to leverage AI s potential The second edition is updated with recent developments including large language models like Aleph Alpha and ChatGPT generative AI affective computing and ethical considerations It also discusses open source solutions legal frameworks and practical use cases Recommended for leaders decision makers students professors and anyone interested in understanding AI s future impact **Machine Learning and Artificial Intelligence in Radiation Oncology** Barry S. Rosenstein,Tim Rattay,John Kang,2023-12-02 Machine Learning and Artificial Intelligence in Radiation Oncology A Guide for Clinicians is designed for the application of practical concepts in machine learning to clinical radiation oncology It addresses the existing void in a resource to educate practicing clinicians about how machine learning can be used to improve clinical and patient centered outcomes This book is divided into three sections the first addresses fundamental concepts of machine learning and radiation oncology detailing techniques applied in genomics the second section discusses translational opportunities such as

in radiogenomics and autosegmentation and the final section encompasses current clinical applications in clinical decision making how to integrate AI into workflow use cases and cross collaborations with industry The book is a valuable resource for oncologists radiologists and several members of biomedical field who need to learn more about machine learning as a support for radiation oncology Presents content written by practicing clinicians and research scientists allowing a healthy mix of both new clinical ideas as well as perspectives on how to translate research findings into the clinic Provides perspectives from artificial intelligence AI industry researchers to discuss novel theoretical approaches and possibilities on academic collaborations Brings diverse points of view from an international group of experts to provide more balanced viewpoints on a complex topic **Introduction to Linear Control Systems** Yazdan Bavafa-Toosi,2017-09-19 Introduction to Linear Control Systems is designed as a standard introduction to linear control systems for all those who one way or another deal with control systems It can be used as a comprehensive up to date textbook for a one semester 3 credit undergraduate course on linear control systems as the first course on this topic at university This includes the faculties of electrical engineering mechanical engineering aerospace engineering chemical and petroleum engineering industrial engineering civil engineering bio engineering economics mathematics physics management and social sciences etc The book covers foundations of linear control systems their raison detre different types modelling representations computations stability concepts tools for time domain and frequency domain analysis and synthesis and fundamental limitations with an emphasis on frequency domain methods Every chapter includes a part on further readings where more advanced topics and pertinent references are introduced for further studies The presentation is theoretically firm contemporary and self contained Appendices cover Laplace transform and differential equations dynamics MATLAB and SIMULINK treatise on stability concepts and tools treatise on Routh Hurwitz method random optimization techniques as well as convex and non convex problems and sample midterm and endterm exams The book is divided to the sequel 3 parts plus appendices PART I In this part of the book chapters 1 5 we present foundations of linear control systems This includes the introduction to control systems their raison detre their different types modelling of control systems different methods for their representation and fundamental computations basic stability concepts and tools for both analysis and design basic time domain analysis and design details and the root locus as a stability analysis and synthesis tool PART II In this part of the book Chapters 6 9 we present what is generally referred to as the frequency domain methods This refers to the experiment of applying a sinusoidal input to the system and studying its output There are basically three different methods for representation and studying of the data of the aforementioned frequency response experiment these are the Nyquist plot the Bode diagram and the Krohn Manger Nichols chart We study these methods in details We learn that the output is also a sinusoid with the same frequency but generally with different phase and magnitude By dividing the output by the input we obtain the so called sinusoidal or frequency transfer function of the system which is the same as the transfer function when

the Laplace variable s is substituted with Finally we use the Bode diagram for the design process PART III In this part Chapter 10 we introduce some miscellaneous advanced topics under the theme fundamental limitations which should be included in this undergraduate course at least in an introductory level We make bridges between some seemingly disparate aspects of a control system and theoretically complement the previously studied subjects Appendices The book contains seven appendices Appendix A is on the Laplace transform and differential equations Appendix B is an introduction to dynamics Appendix C is an introduction to MATLAB including SIMULINK Appendix D is a survey on stability concepts and tools A glossary and road map of the available stability concepts and tests is provided which is missing even in the research literature Appendix E is a survey on the Routh Hurwitz method also missing in the literature Appendix F is an introduction to random optimization techniques and convex and non convex problems Finally appendix G presents sample midterm and endterm exams which are class tested several times *Introduction to Quality by Design in Pharmaceutical Manufacturing and Analytical Development* Márcia Cristina Breitkreitz,Hector Goicoechea,2023-07-13 Written by twenty five authors from academia pharmaceutical industry and Pharmacopeias worldwide this monograph covers the fundamentals and applications of Quality by Design QbD and Analytical Quality by Design AQbD in a practical and didactic manner The book starts by describing the motivation and the urgent need for the implementation of the QbD framework in pharmaceutical development along with the definition of its major elements Quality Target Product Profile QTTP Critical Quality Attributes CQAs Critical Process Parameters CPPs Critical Material Attributes CMAs and the importance of using multivariate methods of Design of Experiments DOE The concept of life cycle and regulatory perspectives are discussed Three chapters are entirely dedicated to DOE theory from screening to optimization designs Moreover a comprehensive discussion on modelling and data treatment is presented Practical aspects of QbD and DOE for pharmaceutical product and process of different dosage forms is included as well as a practical guide of the input process variables material attributes intermediate and final quality attributes for the most representative pharmaceutical processes Analytical Quality by Design AQbD is also deeply explored including risk analysis definitions of Analytical Target Profile ATP Method Operable Design Region MODR and the life cycle approach taking into account the compendial and regulatory perspectives A detailed example of a new chromatographic method for the quality control of a pharmaceutical topical product based on the AQbD procedure is shown Finally advanced statistical approaches and DOE methods for extraction studies of bioactive compounds are also presented The vast amount of information offered in this book provides a comprehensive perspective on QbD AQbD and DOE principles essential tools for modern pharmaceutical and analytical development Methods and Applications of Artificial Intelligence George A. Vouros,Themistoklis Panayiotopoulos,2004-04-01 Arti cial intelligence has attracted a renewed interest from distinguished sci tists and has again raised new more realistic this time expectations for future advances regarding the development of theories models and techniques and the use of them in applications pervading many areas of our daily life The borders of

human level intelligence are still very far away and possibly unknown Nev theless recent scienti c work inspires us to work even harder in our exploration of the unknown lands of intelligence This volume contains papers selected for presentation at the 3rd Hellenic Conference on Arti cial Intelligence SETN 2004 the o cial meeting of the Hellenic Society for Arti cial Intelligence EETN The rst meeting was held in the University of Piraeus 1996 and the second in the Aristotle University of Thessaloniki AUTH 2002 SETN conferences play an important role in the dissemination of the in vative and high quality scienti c results in arti cial intelligence which are being produced mainly by Greek scientists in institutes all over the world However the most important e ect of SETN conferences is that they provide the context in which people meet and get to know each other as well as a very good opp tunity for students to get closer to the results of innovative arti cial intelligence research *Explainable Artificial Intelligence: An Introduction to Interpretable Machine Learning* Uday Kamath,John Liu,2021-12-15 This book is written both for readers entering the field and for practitioners with a background in AI and an interest in developing real world applications The book is a great resource for practitioners and researchers in both industry and academia and the discussed case studies and associated material can serve as inspiration for a variety of projects and hands on assignments in a classroom setting I will certainly keep this book as a personal resource for the courses I teach and strongly recommend it to my students Dr Carlotta Domeniconi Associate Professor Computer Science Department GMU This book offers a curriculum for introducing interpretability to machine learning at every stage The authors provide compelling examples that a core teaching practice like leading interpretive discussions can be taught and learned by teachers and sustained effort And what better way to strengthen the quality of AI and Machine learning outcomes I hope that this book will become a primer for teachers data Science educators and ML developers and together we practice the art of interpretive machine learning Anusha Dandapani Chief Data and Analytics Officer UNICC and Adjunct Faculty NYU This is a wonderful book I m pleased that the next generation of scientists will finally be able to learn this important topic This is the first book I ve seen that has up to date and well rounded coverage Thank you to the authors Dr Cynthia Rudin Professor of Computer Science Electrical and Computer Engineering Statistical Science and Biostatistics Bioinformatics Literature on Explainable AI has up until now been relatively scarce and featured mainly mainstream algorithms like SHAP and LIME This book has closed this gap by providing an extremely broad review of various algorithms proposed in the scientific circles over the previous 5 10 years This book is a great guide to anyone who is new to the field of XAI or is already familiar with the field and is willing to expand their knowledge A comprehensive review of the state of the art Explainable AI methods starting from visualization interpretable methods local and global explanations time series methods and finishing with deep learning provides an unparalleled source of information currently unavailable anywhere else Additionally notebooks with vivid examples are a great supplement that makes the book even more attractive for practitioners of any level Overall the authors provide readers with an enormous breadth of coverage without losing sight of practical aspects which makes this book truly

unique and a great addition to the library of any data scientist Dr Andrey Sharapov Product Data Scientist Explainable AI Expert and Speaker Founder of Explainable AI XAI Group   **AI Essentials Courseware** Reinier van den Biggelaar,2023-12-02 The AI Essentials courseware offers a comprehensive 1 day training program tailored for business and government professionals focusing on the practical application and understanding of Artificial Intelligence AI in their respective work environments This course is structured to provide a deeper insight into the fundamental concepts of human and Artificial Intelligence emphasizing the role of Machine Learning ML as a pivotal contributor to AI s growth Participants will explore the general definition of human and AI delve into the concept of learning from experience and understand how this is integral to Machine Learning based on Tom Mitchell s explicit definition The course also illuminates how AI is an essential component of Universal Design and the Fourth Industrial Revolution A significant focus is given to the challenges posed by AI including a comparison of AI limitations against human systems and the ethical dilemmas AI presents Participants will gain a comprehensive understanding of the risks associated with AI typical funding sources for AI projects and an enumeration of AI s potential applications Crucially the course will demonstrate how AI particularly Machine Learning is set to enhance collaboration between humans and machines It will also provide a forecast of future directions in this symbiotic relationship outlining the evolving landscape of human machine collaboration This courseware educates for The EXIN BCS Artificial Intelligence Essentials testing the fundamental concepts of AI Follow up modules on this course are The AI for Business and Government certification the AI Brevet which was established by the Netherlands AI Coalition NL AIC as a standard for professionals who want to use Artificial Intelligence The EXIN BCS Artificial Intelligence Foundation which has a more IT technical perspective

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