Ivan Bratko Prolog Programming For Artificial Intelligence

Artificial Intelligence By ExampleIntroduction to Artificial IntelligenceThe Ultimate Modern Guide to Artificial IntelligenceApplied Artificial Intelligence in BusinessArtificial IntelligenceArtificial Intelligence For DummiesArtificial IntelligenceDemystifying Artificial intelligenceHands-On Artificial Intelligence for BeginnersArtificial IntelligenceArtificial Intelligence BasicsA New IntelligenceFuture Research Opportunities for Artificial Intelligence in Industry 4.0 and 5.0Artificial Intelligence for Science and Engineering ApplicationsPrinciples of Artificial IntelligenceArtificial Intelligence of Things (AIoT)Advanced Artificial IntelligenceMath Optimization for Artificial IntelligenceArtificial Intelligence BasicsARTIFICIAL INTELLIGENCE Denis Rothman Wolfgang Ertel Enamul Haque Leong Chan Daniel Schutzer John Paul Mueller Roman Shirkin Prashant Kikani Patrick D. Smith John Adamssen Tom Taulli Satyam Kumar Jayesh Rane Shahab D. Mohaghegh Nils J. Nilsson Kashif Naseer Qureshi Zhongzhi Shi Umesh Kumar Lilhore N. Gupta KULKARNI, PARAG

be an adaptive thinker that leads the way to artificial intelligence key features ai

based examples to guide you in designing and implementing machine intelligence develop your own method for future ai solutions acquire advanced ai machine learning and deep learning design skills book description artificial intelligence has the potential to replicate humans in every field this book serves as a starting point for you to understand how ai is built with the help of intriguing examples and case studies artificial intelligence by example will make you an adaptive thinker and help you apply concepts to real life scenarios using some of the most interesting ai examples right from a simple chess engine to a cognitive chatbot you will learn how to tackle the machine you are competing with you will study some of the most advanced machine learning models understand how to apply ai to blockchain and iot and develop emotional quotient in chatbots using neural networks you will move on to designing ai solutions in a simple manner rather than get confused by complex architectures and techniques this comprehensive guide will be a starter kit for you to develop ai applications on your own by the end of this book will have understood the fundamentals of ai and worked through a number of case studies that will help you develop business vision what you will learn use adaptive thinking to solve real life ai case studies rise beyond being a modern day factory code worker acquire advanced ai machine learning and deep learning designing skills learn about cognitive nlp chatbots quantum computing and iot and blockchain technology understand future ai solutions and adapt quickly to them develop out of the box thinking to face any challenge the market presents who this book is for artificial intelligence by example is a simple explanatory and descriptive guide for junior developers experienced developers technology consultants and those interested in ai who want to understand the fundamentals of artificial intelligence and implement it practically by devising smart solutions prior experience with python and statistical knowledge is essential to make the most out of this book

this accessible and engaging textbook presents a concise introduction to the exciting field of artificial intelligence ai the broad ranging discussion covers the key subdisciplines within the field describing practical algorithms and concrete applications in the areas of agents logic search reasoning under uncertainty machine learning neural networks and reinforcement learning fully revised and updated this much anticipated second edition also includes new material on deep learning topics and features presents an application focused and hands on approach to learning with supplementary teaching resources provided at an associated website contains numerous study exercises and solutions highlighted examples definitions theorems and illustrative cartoons includes chapters on predicate logic prolog heuristic search probabilistic reasoning

machine learning and data mining neural networks and reinforcement learning reports on developments in deep learning including applications of neural networks to generate creative content such as text music and art new examines performance evaluation of clustering algorithms and presents two practical examples explaining bayes theorem and its relevance in everyday life new discusses search algorithms analyzing the cycle check explaining route planning for car navigation systems and introducing monte carlo tree search new includes a section in the introduction on ai and society discussing the implications of ai on topics such as employment and transportation new ideal for foundation courses or modules on ai this easy to read textbook offers an excellent overview of the field for students of computer science and other technical disciplines requiring no more than a high school level of knowledge of mathematics to understand the material

the era of artificial intelligence has arrived you who only felt far from artificial intelligence and the growing dream trees are now inseparable from artificial intelligence what does ai have to do with me isn t it a distant future that has nothing to do with me not a scientist a technician or a computer programmer well artificial intelligence is not a story of someone who has nothing to do with it but the fact is it is now everyone s story ai is already deeply infiltrating everyone s life the question is no longer whether we use technology or not it s about working together in a better way surrounding technologies like siri alexa or cortana are seamlessly integrated into our interactions we walk into the room turn on the lights play songs change the room temperature keep track of shopping lists book a ride at the airport or remind ourselves to take the proper medication on time it is now necessary to look at artificial intelligence from a broader and larger perspective you should not just hang on to complex deep learning algorithms and think only through science and technology but through the eyes of emotions and humanities these days elementary school students learn english and coding at school tomorrow s elementary school students will learn ai of course not everyone needs to be an ai expert but if you don t understand ai you will be left out of the trend of changing times ai comes before english and coding this is because artificial intelligence is the language and tool of the future this book opens your door to the most critical understanding needed of ai and other relevant disruptive technologies artificial intelligence will significantly change societal structures and the operations of companies the next generation of employees needs to be trained as a workforce before entering the job market and the existing workforce is regularly recharged and skilled there is plenty on this for reskilling too this is the most definitive compendium of ai the internet of things machine learning deep

learning data science big data cloud computing neural networks robotics the future of work and the future of intelligent industries

this book offers students an introduction to the concepts of big data and artificial intelligence ai and their applications in the business world it answers questions such as what are the main concepts of artificial intelligence and big data what applications for artificial intelligence and big data analytics are used in the business field it offers application oriented overviews and cases from different sectors and fields to help readers discover and gain useful insights each chapter features discussion questions and summaries to assist professors in teaching the book supplementary materials will include answers to questions and presentation slides

step into the future with ai the term artificial intelligence has been around since the 1950s but a lot has changed since then today ai is referenced in the news books movies and tv shows and the exact definition is often misinterpreted artificial intelligence for dummies provides a clear introduction to ai and how it s being used today inside you ll get a clear overview of the technology the common misconceptions surrounding it and a fascinating look at its applications in everything from self driving cars and drones to its contributions in the medical field learn about what ai has contributed to society explore uses for ai in computer applications discover the limits of what ai can do find out about the history of ai the world of ai is fascinating and this hands on guide makes it more accessible than ever

if you are searching for resources to start studying artificial intelligence then you are in the right place the author discusses all the things step by step in this short and cheap textbook for beginners artificial intelligence is one of the most important breakthroughs in today s world experts from various industries study its capabilities and discover new methods of its application if you want to know about ai so this book is the perfect one to start get your copy now book objectivesthis book is about artificial intelligence the author wrote the book with the following objectives to help you understand what artificial intelligence is to help you learn the various approaches to artificial intelligence to help you appreciate the power of artificial intelligence and how it has revolutionized the various sectors in the world to equip you with python programming skills good for artificial intelligence to help you understand the future of artificial intelligence and its expected impact on the various sectors in the world who this book is for this book as written with the following groups of people in mind any individual in need of learning the basics and theories of artificial intelligence

any individual who needs to understand the various practical approaches to artificial intelligence anyone who needs to learn how artificial intelligence has impacted the world and how it will impact the world in the future anyone who needs to learn python programming skills good for artificial intelligence requirementsthe author expects you to have a computer installed with the python interpreter what you will learn basics of ai intelligent systems intelligent agents and environments problem solving through searching machine learning deep learning convolutional networks natural language processing fuzzy logic systems knowledge representation the future of ai the author begins by introducing you to the basics of artificial intelligence the aim is to help you know what artificial intelligence is its goals and its components intelligent systems intelligent agents and their environments have been discussed you will know what intelligent systems agents are and where they are applied the author has also discussed the various challenges intelligent systems agents face when acting on their environments searching is a common technique of solving problems in artificial intelligence the various search algorithms have been discussed machine learning is a very important field in artificial intelligence this has been discussed in detail you will also learn how to implement various machine learning algorithms in python programming language deep learning and artificial neural networks have been explored in detail you will learn how artificial neural networks work the various applications of deep learning have been discussed the process of creating artificial neural networks in the python programming language has been discussed other topics that have been discussed include convolutional neural networks natural language processing knowledge representation and fuzzy logic the author has finally done a prediction to help you know how artificial intelligence is expected to revolutionize the various sectors in the world

learn ai machine learning from the first principles key featuresÊÊ explore how different industries are using ai and ml for diverse use cases learn core concepts of data science machine learning deep learning and nlp in an easy and intuitive manner cutting edge coverage on use of ml for business products and services explore how different companies are monetizing ai and ml technologies learn how you can start your own journey in the ai field from scratch description ai and machine learning ml are probably the most fascinating technologies of the 21st century ai is literally in every industry now from medical to climate change education to sport finance to entertainment ai is disrupting every industry as we know so the basic knowledge of ai ml becomes mandatory for everyone this book is your first step to start the journey in this field along with basic concepts of fields like machine learning deep learning and nlp we will also explore how

big companies are using these technologies to deliver greater user experience and earning millions of dollars in profit also we will see how the owners of small or medium sized businesses can leverage and integrate these technologies with their products and services leveraging ai and ml can become that competitive moat which can differentiate the product from others in this book you will learn the root concepts of ai ml and how these inanimate machines can actually become smarter than the humans at a few tasks and how companies are using ai and how you can leverage ai to earn profits what you will learn Ê core concepts of data science machine learning deep learning and nlp in simple and intuitive words how you can leverage and integrate ai technologies in your business to differentiate your product in the market the limitations of traditional non tech businesses and how ai can bridge those gaps to increase revenues and decrease costs how ai can help companies in launching new products improving existing ones and automating mundane processes explore how big tech companies are using ai to automate different tasks and providing unique product experiences to their users who this book is forÊÊ this book is for anyone who is curious about this fascinating technology and how it really works at its core it is also beneficial to those who want to start their career in ai ml table of contentsÊ 1 introduction 2 going deeper in ml concepts 3 business perspective of ai 4 how to get started and pitfalls to avoid

grasp the fundamentals of artificial intelligence and build your own intelligent systems with ease key featuresenter the world of ai with the help of solid concepts and real world use casesexplore ai components to build real world automated intelligencebecome well versed with machine learning and deep learning conceptsbook description virtual assistants such as alexa and siri process our requests google s cars have started to read addresses and amazon s prices and netflix s recommended videos are decided by ai artificial intelligence is one of the most exciting technologies and is becoming increasingly significant in the modern world hands on artificial intelligence for beginners will teach you what artificial intelligence is and how to design and build intelligent applications this book will teach you to harness packages such as tensorflow in order to create powerful ai systems you will begin with reviewing the recent changes in ai and learning how artificial neural networks anns have enabled more intelligent ai you ll explore feedforward recurrent convolutional and generative neural networks ffnns rnns cnns and gnns as well as reinforcement learning methods in the concluding chapters you ll learn how to implement these methods for a variety of tasks such as generating text for chatbots and playing board and video games by the end of this book you will be able to understand exactly what you need to consider when optimizing anns and how

to deploy and maintain ai applications what you will learnuse tensorflow packages to create ai systemsbuild feedforward convolutional and recurrent neural networksimplement generative models for text generationbuild reinforcement learning algorithms to play gamesassemble rnns cnns and decoders to create an intelligent assistantutilize rnns to predict stock market behaviorcreate and scale training pipelines and deployment architectures for ai systemswho this book is for this book is designed for beginners in ai aspiring ai developers as well as machine learning enthusiasts with an interest in leveraging various algorithms to build powerful ai applications

this book consists of two titles which are the following book 1 in this guide you will learn about all the basics of artificial intelligence you ll learn what it is how it works and where it came from or in other words how it all started aside from that we ll dive into some data analytics and examples of artificial intelligence we ll cover several steps in the analytical process and see what it takes for artificial intelligence to be effective last but not least safety and privacy issues will be brought to light since today s age is full of hacking spying and theft therefore it is mandatory that these devices and systems are kept safe and secure book 2 many people have unanswered questions about artificial intelligence today the majority of those questions will likely be answered concerns will be addressed and examples will be given this book starts off with a question and answer section about artificial intelligence it then proceeds to cover specific artificially intelligent applications such as chatbots and robotics these pages will show details of things that puzzle many people s minds but you won t be left in the dark and will enjoy the full benefits of this knowledge

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 new intelligence is the ultimate introduction to ai providing you with the knowledge and insight needed to navigate the ai driven future with confidence whether you are a beginner seeking to understand the basics or a student aiming to explore the forefront of technology this book is your key to unlock the mysteries of artificial intelligence embark on this transformative journey and embrace the new intelligence that shapes our world

artificial intelligence ai machine learning ml and other emerging technologies such as cloud edge and quantum computing are converging to rewrite the landscape of modern industries and society as a whole comprehensive in scope the book offers a detailed account of these inter related domains current trends and future possibilities chapter 1 we begin by setting the stage with an overview on various trends problems proposed to solve and road ahead provided by ai machine learning and deep learning from cloud edge and quantum computing perspectives the same is a comprehensive summary to provide perspective on the implications as one continuous stream of technology it then discusses scalable and adaptive deep learning algorithms which work in modern machine learning systems where there is a deluge of data these algorithms sufficiently prepare ai technologies to face the challenges of increasing data as well as expansion of computational capabilities chapter three is federated learning for edge ai further makes privacy personalization and security stronger the amalgamation of blockchain emphasizes the robust and distributed nature of edge intelligence in modern iot ecosystems one of the most pressing issues in today s ethical landscape is that of explainable artificial intelligence xai and so

the fourth chapter deals with some recent advances in explaining black box models providing a way to better understand and thus potentially trust ai driven decision making processes this study explores the application of automated machine learning automl in the contexts of industry 4 0 and society 5 0 giving insights on how automation can bring efficiency and innovation in different sectors it also presents information on the challenges and opportunities that automl faces in conclusion the book discusses artificial general intelligence agi which is a new topic that presents an ambitious view of what ai may be capable of in the future and some points to digest over how the concept might relate to our understanding on what industry may look like in the next stage of human evolution individually these chapters offer a slice of the overall picture of where ai technologies are headed to keep pace with an advancing world

artificial intelligence ai is defined as the simulation of human intelligence through the mimicking of the human brain for analysis modeling and decision making science and engineering problem solving requires modeling of physical phenomena and humans approach the solution of scientific and engineering problems differently from other problems artificial intelligence for science and engineering applications addresses the unique differences in how ai should be developed and used in science and engineering through the inclusion of definitions and detailed examples this book describes the actual and realistic requirements as well as what characteristics must be avoided for correct and successful science and engineering applications of ai this book offers a brief history of ai and covers science and engineering applications explores the modeling of physical phenomena using ai discusses explainable ai xai applications covers the ethics of ai in science and engineering features real world case studies offering a probing view into the unique nature of scientific and engineering exploration this book will be of interest to generalists and experts looking to expand their understanding of how ai can better tackle and advance technology and developments in scientific and engineering disciplines

a classic introduction to artificial intelligence intended to bridge the gap between theory and practice principles of artificial intelligence describes fundamental ai ideas that underlie applications such as natural language processing automatic programming robotics machine vision automatic theorem proving and intelligent data retrieval rather than focusing on the subject matter of the applications the book is organized around general computational concepts involving the kinds of data structures used the types of operations performed on the data structures and the properties of the control

strategies used principles of artificial intelligenceevolved from the author s courses and seminars at stanford university and university of massachusetts amherst and is suitable for text use in a senior or graduate ai course or for individual study

this book is devoted to the new standards technologies and communication systems for artificial intelligence of things aiot networks smart and intelligent communication networks have gained significant attention due to the combination of ai and iot networks to improve human and machine interfaces and enhance data processing and services aiot networks involve the collection of data from several devices and sensor nodes in the environment ai can enhance these networks to make them faster greener smarter and safer computer vision language processing and speech recognition are some examples of aiot networks due to a large number of devices in today s world efficient and intelligent data processing is essential for problem solving and decision making ai multiplies the value of these networks and promotes intelligence and learning capabilities especially in homes offices and cities however several challenges have been observed in deploying aiot networks such as scalability complexity accuracy and robustness in addition these networks are integrated with cloud 5g networks and blockchain methods for service provision many different solutions have been proposed to address issues related to machine and deep learning methods ontology based approaches genetic algorithms and fuzzy based systems this book aims to contribute to the state of the art and present current standards technologies and approaches for aiot networks this book focuses on existing solutions in aiot network technologies applications services standards architectures and security provisions this book also introduces some new architectures and models for aiot networks

the joint breakthrough of big data cloud computing and deep learning has made artificial intelligence ai the new focus in the international arena ai is a branch of computer science developing intelligent machine with imitating extending and augmenting human intelligence through artificial means and techniques to realize intelligent behaviour this comprehensive compendium consisting of 15 chapters captures the updated achievements of ai it is completely revised to reflect the current researches in the field through numerous techniques and strategies to address the impending challenges facing computer scientists today the unique volume is useful for senior or graduate students in the information field and related tertiary specialities it is also a suitable reference text for professionals researchers and academics in ai

machine learning electrical electronic engineering and biocomputing

the book presents powerful optimization approaches for integrating ai into daily life this book explores how heuristic and metaheuristic methodologies have revolutionized the fields of robotics and machine learning the book covers the wide range of tools and methods that have emerged as part of the ai revolution from state of the art decision making algorithms for robots to data driven machine learning models each chapter offers a meticulous examination of the theoretical foundations and practical applications of mathematical optimization helping readers understand how these methods are transforming the field of technology this book is an invaluable resource for researchers practitioners and students it makes ai optimization accessible and comprehensible equipping the next generation of innovators with the knowledge and skills to further advance robotics and machine learning while artificial intelligence constantly evolves this book sheds light on the path ahead

no detailed description available for artificial intelligence basics

there has been a movement over the years to make machines intelligent with the advent of modern technology ai has become the core part of day to day life but it is accentuated to have a book that keeps abreast of all the state of the art concepts pertaining to ai in simplified explicit and elegant way expounding on ample examples so that the beginners are able to comprehend the subject with ease the book on artificial intelligence dexterously divided into 21 chapters fully satisfies all these pressing needs it is intended to put each and every concept related to intelligent system in front of the readers in the most simplified way so that while understanding the basic concepts they will develop thought process that can contribute to the building of advanced intelligent systems various cardinal landmarks pertaining to the subject such as problem solving search techniques intelligent agents constraint satisfaction problems knowledge representation planning machine learning natural language processing pattern recognition game playing hybrid and fuzzy systems neural network based learning and future work and trends in ai are now under the single umbrella of this book thereby showing a nice blend of theoretical and practical aspects with all the latest information incorporated and several pedagogical attributes included this textbook is an invaluable learning tool for the undergraduate and postgraduate students of computer science and engineering and information technology key features highlights a clear and concise presentation through adequate study material follows a systematic approach to explicate fundamentals as well as recent advances in the area presents ample relevant

problems in the form of multiple choice questions concept review questions critical thinking exercise and project work incorporates various case studies for major topics as well as numerous industrial examples

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