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J4V7QN - HERRERA LENNON

The availability of very large data sets and the increase in computing power to process them has led to a renewed intensity in corporate and governmental use of Artificial Intelligence (AI) technologies. This groundbreaking book, the first devoted entirely to the growing presence of AI in the legal profession, responds to the necessity of building up a discipline that due to its novelty requires the pooling of knowledge and experiences of well-respected experts in the AI field, taking into account the impact of AI on the law and legal practice. Essays by internationally known expert authors introduce the essentials of AI in a straightforward and intelligible style, offering jurists as many practical examples and business cases as possible so that they are able to understand the real application of this technology and its impact on their jobs and lives. Elements of the analysis include the following: crucial terms: natural language processing, machine learning and deep learning; regulations in force in major jurisdictions; ethical and social issues; labour and employment issues, including the impact that robots have on employment; prediction of outcome in the legal field (judicial proceedings, patent granting, etc.); massive analysis of documents and identification of patterns from which to derive conclusions; AI and taxation; issues of competition and intellectual property; liability and responsibility of intelligent systems; AI and cybersecurity; AI and data protection; impact on state tax revenues; use of autonomous killer robots in the military; challenges related to privacy; the need to embrace transparency and sustainability; pressure brought by clients on prices; minority languages and AI; danger that the existing gap between large and small businesses will further increase; how to avoid algorithmic biases when AI decides; AI application to due diligence; AI and non-disclosure agreements; and the role of chatbots. Interviews with pioneers in the field are included, so readers get insights into the issues that people are dealing with in day-to-day actualities. Whether conceiving AI as a transformative technology of the labour market and training or an economic and business sector in need of legal advice, this introduction to AI will help practitioners in tax law, labour law, competition law and intellectual property law understand what AI is, what it serves, what is the state of the art and the potential of this technology, how they can benefit from its advantages and what are the risks it presents. As the global economy continues to suffer the repercussions of a framework that was previously fundamentally self-regulatory, policymakers will recognize the urgent need to formulate rules to properly manage the future of AI.

Artificial Intelligence is no longer the stuff of science fiction. Half a century of research has resulted in machines capable of beating the best human chess players, and humanoid robots which are able to walk and interact with us. But how similar is this 'intelligence' to our own? Can machines really think? Is the mind just a complicated computer program? Addressing major issues in the design of intelligent machines, such as consciousness and environment, and covering everything from the influential groundwork of Alan Turing to the cutting-edge robots of today, *Introducing Artificial Intelligence* is a uniquely accessible illustrated introduction to this fascinating area of science.

If you're looking to make a career move from programmer to AI specialist, this is the ideal place to start. Based on Laurence Moroney's extremely successful AI courses, this introductory book provides a hands-on, code-first approach to help you build confidence while you learn key topics. You'll understand how to implement the most common scenarios in machine learning, such as computer vision, natural language processing (NLP), and sequence modeling for web, mobile, cloud, and embedded runtimes. Most books on machine learning begin with a daunting amount of advanced math. This guide is built on practical lessons that let you work directly with the code. You'll learn: How to build models with TensorFlow using skills that employers desire The basics of machine learning by working with code samples How to implement computer vision, including feature detection in images How to use NLP to tokenize and sequence words and sentences Methods for embedding models in Android and iOS How to serve models over the web and in the cloud with TensorFlow Serving

This book is about making machine learning models and their decisions interpretable. After exploring the concepts of interpretability, you will learn about simple, interpretable models such as decision trees, decision rules and linear regression. Later chapters focus on general model-agnostic methods for interpreting black box models like feature importance and accumulated local effects and explaining individual predictions with Shapley values and LIME. All interpretation methods are explained in depth and discussed critically. How do they work under the hood? What are their strengths and weaknesses? How can their outputs be interpreted? This book will enable you to select and correctly apply the interpretation method that is most suitable for your machine learning project.

Are you fascinated about machine learning and AI and you don't know where to start? Have you ever heard people talking about Machine Learning but you only have a vague idea of the actual meaning? Do you want to understand how machine learning could simplify your daily life? Imagine a world

where computing systems understand people and the world around us them to a point where they can notice patterns, collect data, interpret it and give recommendations to solve real world problems with high level of precision. It sounds like science fiction but it is happening in healthcare, agriculture, cyber security, facial recognition, targeting and retargeting customers in online advertising, recommending specific products, stories, videos, text etc., self-driving cars, real time pricing, predicting human behavior and much more. Now imagine you being one of the people behind the code; the people who get these advanced systems to work the way they do. Would it be a dream come true for you? By virtue that you are reading this, it is clear that you have some special liking for this advanced tech and would want to learn how you can be one of the people behind the code. Even if not, you probably want to be able to understand the inner workings of these systems. The concept may sound extremely out there and advanced but it won't be if you follow this guide, which takes an easy to follow, beginner friendly language to help you to understand the ins and outs of machine learning! Here is a summary of what this book will teach you: The basics of machine learning, including what it is, how machine learning has evolved over the years, the application of machine learning in today's world and the future of machine learning How machine learning is beneficial in today's world The different approaches to machine learning, including unsupervised, supervised, reinforcement learning method, semi-supervised machine learning and many others The concept of big data analysis, including what is big data, why big data is important, the application of big data in today's world as well as the different data analysis tools that you can use The link between big data and machine learning The different machine learning algorithms, including what machine-learning algorithms are and how and when the different learning algorithms are used The concept of artificial neural networks, including how they work, when to use neural networks and more How decision trees are used in machine learning, including what decision trees are (in respect to machine learning), how they work, how the decision tree is read, the different nodes in decision trees and when to use them The ins and outs of linear and logistic regression in machine learning, including what linear regression is, different types of regression, how linear regression works, how linear regression is used and much more And much more! Even if this is your first encounter with the concept of machine learning, this book will uncover everything you need to know to master machine learning and possibly get started in this field of advanced computing knowing very well what you are venturing into. And the good thing is that the book takes a beginner friendly approach to help you to apply what you learn right away! Would You Like To Know More? Click Buy Now With 1-Click or Buy Now to get started!

This book presents a unique, understandable view of machine learning using many practical examples and access to free professional software and open source code. The user-friendly software can immediately be used to apply everything you learn in the book without the need for programming. After an introduction to machine learning and artificial intelligence, the chapters in Part II present deeper explanations of machine learning algorithms, performance evaluation of machine learning models, and how to consider data in machine learning environments. In Part III the author explains automatic speech recognition, and in Part IV biometrics recognition, face- and speaker-recognition. By Part V the author can then explain machine learning by example, he offers cases from real-world applications, problems, and techniques, such as anomaly detection and root cause analyses, business process improvement, detecting and predicting diseases, recommendation AI, several engineer-

ing applications, predictive maintenance, automatically classifying datasets, dimensionality reduction, and image recognition. Finally, in Part VI he offers a detailed explanation of the AI-TOOLKIT, software he developed that allows the reader to test and study the examples in the book and the application of machine learning in professional environments. The author introduces core machine learning concepts and supports these with practical examples of their use, so professionals will appreciate his approach and use the book for self-study. It will also be useful as a supplementary resource for advanced undergraduate and graduate courses on machine learning and artificial intelligence.

New edition of the bestselling guide to artificial intelligence with Python, updated to Python 3.x, with seven new chapters that cover RNNs, AI and Big Data, fundamental use cases, chatbots, and more. Key Features Completely updated and revised to Python 3.x New chapters for AI on the cloud, recurrent neural networks, deep learning models, and feature selection and engineering Learn more about deep learning algorithms, machine learning data pipelines, and chatbots Book Description Artificial Intelligence with Python, Second Edition is an updated and expanded version of the bestselling guide to artificial intelligence using the latest version of Python 3.x. Not only does it provide you an introduction to artificial intelligence, this new edition goes further by giving you the tools you need to explore the amazing world of intelligent apps and create your own applications. This edition also includes seven new chapters on more advanced concepts of Artificial Intelligence, including fundamental use cases of AI; machine learning data pipelines; feature selection and feature engineering; AI on the cloud; the basics of chatbots; RNNs and DL models; and AI and Big Data. Finally, this new edition explores various real-world scenarios and teaches you how to apply relevant AI algorithms to a wide swath of problems, starting with the most basic AI concepts and progressively building from there to solve more difficult challenges so that by the end, you will have gained a solid understanding of, and when best to use, these many artificial intelligence techniques. What you will learn Understand what artificial intelligence, machine learning, and data science are Explore the most common artificial intelligence use cases Learn how to build a machine learning pipeline Assimilate the basics of feature selection and feature engineering Identify the differences between supervised and unsupervised learning Discover the most recent advances and tools offered for AI development in the cloud Develop automatic speech recognition systems and chatbots Apply AI algorithms to time series data Who this book is for The intended audience for this book is Python developers who want to build real-world Artificial Intelligence applications. Basic Python programming experience and awareness of machine learning concepts and techniques is mandatory.

Can machines really think? Is the mind just a complicated computer program? This book focuses on the major issues behind one of the hardest scientific problems ever undertaken, from Alan Turing's influential groundwork to cutting-edge robotics and the new AI.

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 Objectives This 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 is 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. Requirements The 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.

So, what is the deal with intelligent machines? Will they soon decide on things such as copyright infringement? How about self-driving trucks and cars? What kind of impact will smart machines have on society and the future of human jobs?

Do you want to learn a modern approach to artificial intelligence the basics of AI and how to put it into practice? If yes, then keep reading... The basic concept of artificial intelligence is quite easy to understand because it's in the name. Artificial intelligence is intelligence that has been created by hand and not... artificial intelligence is intelligence that is not like real intelligence? Artificial intelligence is a machine attempting to emulate biological intelligence? Actually, the concept of artificial intelligence is quite difficult to nail down to a specific definition. All right, the basic way that we understand artificial intelligence is an intelligence that is produced by a machine. This has been the standard definition for about a century. The reason why it is difficult to conceptualize a specific definition of artificial intelligence is that of how blurred the line is between biological intelligence and mechanical intelligence. This book aims to provide examples of the ways that the development and adaptation of artificial intelligence will open up new opportunities and challenges to both the busi-

ness world and society as a whole. For this reason, you won't find a lot of detailed explanations of the technical aspects of AI here. However, at the end of this book, you can research other resources that you can consult if you'd like to dive deeper into the technical world of artificial intelligence. The idea that computers or software programs can both learn and make decisions is particularly significant and something that we should be aware of, as their processes are growing exponentially over time. Because of these two skills, AI systems can now accomplish many of the tasks that were once reserved for humans. AI-based technologies are already being used to help humans benefit from significant improvements and increased efficiency in nearly every area of life. As the development of AI continues to grow, it will change the ways we live and work more and more. Another benefit of AI is that it allows machines and robots to perform tasks that humans consider to be difficult, boring, or dangerous. In turn, this will enable humankind to do things that were once thought impossible. One drawback to AI technologies is that machines will also be able to perform many tasks that currently require a human touch, which will significantly disrupt the labor market. AI also has the potential to cause political power struggles. We'll cover lots of these topics in the chapters of this book. This book gives a comprehensive guide on the following: What is Artificial Intelligence? The History of AI Essentials of Data Artificial Intelligent Systems Chatbots Robotics Speech Recognition AI FAQs AI Myths Future Prospects... AND MORE!!! AI can be applied to just about every situation and offers the possibility of transforming our experiences, making things better and more effective. What are you waiting for? Click buy now!!!!

Many industries have been revolutionized by the widespread adoption of AI and machine learning. The programmatic availability of historical and real-time financial data in combination with techniques from AI and machine learning will also change the financial industry in a fundamental way. This practical book explains how to use AI and machine learning to discover statistical inefficiencies in financial markets and exploit them through algorithmic trading. Author Yves Hilpisch shows practitioners, students, and academics in both finance and data science how machine and deep learning algorithms can be applied to finance. Thanks to lots of self-contained Python examples, you'll be able to replicate all results and figures presented in the book. Examine how data is reshaping finance from a theory-driven to a data-driven discipline Understand the major possibilities, consequences, and resulting requirements of AI-first finance Get up to speed on the tools, skills, and major use cases to apply AI in finance yourself Apply neural networks and reinforcement learning to discover statistical inefficiencies in financial markets Delve into the concepts of the technological singularity and the financial singularity

If you have ever wondered what drives the many tools we use every day, then keep reading. The Fourth Industrial Revolution is led by Artificial Intelligence technology and setting the humankind for a global social transformation. The powerful applications of AI have already transformed our daily lives. Tools such as virtual personal and home assistants (like Siri in Apple Pods and Alexa in Amazon Echo) have become everyday usage products. Artificial Intelligence and Machine Learning are closely related. They have become an important part of scientific study. Not only does it involve the study of statistical models and algorithms, but also the systems used for task performance. Our aim with this book is to provide you a 360 view of the fundamentals and importance of Machine Learning Technology for the beginners' level. You Will Learn: The Fundamentals and Concepts of Artificial Intel-

ligence in 2020 The Technology behind AI, and its Rapid growth and Evolution The Advantages and Disadvantages of Artificial Intelligence How AI Helps Business The Importance of Deep Learning Today How the Fields of Data Science and Its Many Applications Helps Your Business Computer Science and Its Applications in Real World Basic Terminology Used in Artificial Intelligence As we cover the basics of Machine Learning and Artificial Intelligence, you will be glad to know that it can be understood and processed on the beginners' level. Even though it may seem to have some big words. Would You Like to Know More? Get This book Today to know how Machine Learning is changing our world.

Melanie Mitchell separates science fact from science fiction in this sweeping examination of the current state of AI and how it is remaking our world No recent scientific enterprise has proved as alluring, terrifying, and filled with extravagant promise and frustrating setbacks as artificial intelligence. The award-winning author Melanie Mitchell, a leading computer scientist, now reveals AI's turbulent history and the recent spate of apparent successes, grand hopes, and emerging fears surrounding it. In *Artificial Intelligence*, Mitchell turns to the most urgent questions concerning AI today: How intelligent—really—are the best AI programs? How do they work? What can they actually do, and when do they fail? How humanlike do we expect them to become, and how soon do we need to worry about them surpassing us? Along the way, she introduces the dominant models of modern AI and machine learning, describing cutting-edge AI programs, their human inventors, and the historical lines of thought underpinning recent achievements. She meets with fellow experts such as Douglas Hofstadter, the cognitive scientist and Pulitzer Prize-winning author of the modern classic *Gödel, Escher, Bach*, who explains why he is “terrified” about the future of AI. She explores the profound disconnect between the hype and the actual achievements in AI, providing a clear sense of what the field has accomplished and how much further it has to go. Interweaving stories about the science of AI and the people behind it, *Artificial Intelligence* brims with clear-sighted, captivating, and accessible accounts of the most interesting and provocative modern work in the field, flavored with Mitchell's humor and personal observations. This frank, lively book is an indispensable guide to understanding today's AI, its quest for “human-level” intelligence, and its impact on the future for us all.

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.

A straightforward, non-technical guide to the next major marketing tool *Artificial Intelligence for Marketing* presents a tightly-focused introduction to machine learning, written specifically for marketing professionals. This book will not teach you to be a data scientist—but it does explain how Artificial Intelligence and Machine Learning will revolutionize your company's marketing strategy, and teach you how to use it most effectively. Data and analytics have become table stakes in modern marketing, but the field is ever-evolving with data scientists continually developing new algorithms—where does that leave you? How can marketers use the latest data science developments to their advantage? This book walks you through the “need-to-know” aspects of Artificial Intelligence, including natural language processing, speech recognition, and the power of Machine Learning to show you how to make the most of this technology in a practical, tactical way. Simple illustrations clarify complex concepts, and case studies show how real-world companies are taking the next leap forward. Straightforward, pragmatic, and with no math required, this book will help you: Speak intelligently about Artificial Intelligence and its advantages in marketing Understand how marketers without a Data Science degree can make use of machine learning technology Collaborate with data scientists as a subject matter expert to help develop focused-use applications Help your company gain a competitive advantage by leveraging leading-edge technology in marketing Marketing and data science are two fast-moving, turbulent spheres that often intersect; that intersection is where marketing professionals pick up the tools and methods to move their company forward. Artificial Intelligence and Machine Learning provide a data-driven basis for more robust and intensely-targeted marketing strategies—and companies that effectively utilize these latest tools will reap the benefit in the marketplace. *Artificial Intelligence for Marketing* provides a nontechnical crash course to help you stay ahead of the curve.

In line with the BCS AI Foundation and Essentials certificates, this book guides you through the world of AI. You will learn how AI is being utilised today, and how it is likely to be used in the future. You will explore robotics and machine learning within the context of AI, and discover how the challenges AI presents are being addressed.

This jargon-free guide introduces the futuristic world of Artificial Intelligence, the science of creating machines that can think for themselves.

This book takes a pragmatic and hype-free approach to explaining artificial intelligence and how it can be utilised by businesses today. At the core of the book is a framework, developed by the author, which describes in non-technical language the eight core capabilities of Artificial Intelligence (AI). Each of these capabilities, ranging from image recognition, through natural language processing, to prediction, is explained using real-life examples and how they can be applied in a business

environment. It will include interviews with executives who have successfully implemented AI as well as CEOs from AI vendors and consultancies. AI is one of the most talked about technologies in business today. It has the ability to deliver step-change benefits to organisations and enables forward-thinking CEOs to rethink their business models or create completely new businesses. But most of the real value of AI is hidden behind marketing hyperbole, confusing terminology, inflated expectations and dire warnings of 'robot overlords'. Any business executive that wants to know how to exploit AI in their business today is left confused and frustrated. As an advisor in Artificial Intelligence, Andrew Burgess regularly comes face-to-face with business executives who are struggling to cut through the hype that surrounds AI. The knowledge and experience he has gained in advising them, as well as working as a strategic advisor to AI vendors and consultancies, has provided him with the skills to help business executives understand what AI is and how they can exploit its many benefits. Through the distilled knowledge included in this book business leaders will be able to take full advantage of this most disruptive of technologies and create substantial competitive advantage for their companies.

So, what is the deal with intelligent machines? Will they soon decide on things such as copyright infringement? How about self-driving trucks and cars?

Demystify the complexity of machine learning techniques and create evolving, clever solutions to solve your problems Key Features Master supervised, unsupervised, and semi-supervised ML algorithms and their implementation Build deep learning models for object detection, image classification, similarity learning, and more Build, deploy, and scale end-to-end deep neural network models in a production environment Book 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 TensorFlow 1.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 Bonaccorso Mastering TensorFlow 1.x by Armando Fandango Deep Learning for Computer Vision by Rajalingappaa Shanmugamani What you will learn Explore how an ML model can be trained, optimized, and evaluated Work with Autoencoders and Generative Adversarial Networks Explore the most important Reinforcement Learning techniques Build end-to-end deep learning (CNN, RNN, and Autoencoders) models Who 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 learn-

ing 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.

AI is all around us today, in more places than you think! This book covers the basics of artificial intelligence and machine learning for children, with concepts that range from the very first ideas about A.I. through the latest algorithms that today's leading computer scientists are working on. For illustration, the book uses real-world examples of today's A.I., including cool applications in the fields of music, art, poetry, language, robotics, cars, rockets, video games, and more. Designed for readers who may not have a background in computers or programming, the book touches on math, computer architecture, logic, and simple programming ideas, along with activities that students can try themselves. We discuss some of the social and ethical implications of artificial intelligence from various angles, including public safety, bias, and more. With inset historical facts, illustrations, and bits of trivia about AI and computing in each chapter, the book contains the essential knowledge that a young person needs to understand how and why the world of A.I. has come to be, and quite possibly, where it's headed in the very near future.

Unique graphic guide to the fascinating developments in AI and their philosophical implications

A Wharton professor and tech entrepreneur examines how algorithms and artificial intelligence are starting to run every aspect of our lives, and how we can shape the way they impact us Through the technology embedded in almost every major tech platform and every web-enabled device, algorithms and the artificial intelligence that underlies them make a staggering number of everyday decisions for us, from what products we buy, to where we decide to eat, to how we consume our news, to whom we date, and how we find a job. We've even delegated life-and-death decisions to algorithms--decisions once made by doctors, pilots, and judges. In his new book, Kartik Hosanagar surveys the brave new world of algorithmic decision-making and reveals the potentially dangerous biases they can give rise to as they increasingly run our lives. He makes the compelling case that we need to arm ourselves with a better, deeper, more nuanced understanding of the phenomenon of algorithmic thinking. And he gives us a route in, pointing out that algorithms often think a lot like their creators--that is, like you and me. Hosanagar draws on his experiences designing algorithms professionally--as well as on history, computer science, and psychology--to explore how algorithms work and why they occasionally go rogue, what drives our trust in them, and the many ramifications of algorithmic decision-making. He examines episodes like Microsoft's chatbot Tay, which was designed to converse on social media like a teenage girl, but instead turned sexist and racist; the fatal accidents of self-driving cars; and even our own common, and often frustrating, experiences on services like Netflix and Amazon. A Human's Guide to Machine Intelligence is an entertaining and provocative look at one of the most important developments of our time and a practical user's guide to this first wave of practical artificial intelligence.

"The authors' clear visual style provides a comprehensive look at what's currently possible with artificial neural networks as well as a glimpse of the magic that's to come." -Tim Urban, author of Wait But Why Fully Practical, Insightful Guide to Modern Deep Learning Deep learning is transforming software, facilitating powerful new artificial intelligence capabilities, and driving unprecedented algorithm performance. Deep Learning Illustrated is uniquely intuitive and offers a complete introduction to the discipline's techniques. Packed with full-color figures and easy-to-follow code, it sweeps away

the complexity of building deep learning models, making the subject approachable and fun to learn. World-class instructor and practitioner Jon Krohn—with visionary content from Grant Beyleveld and beautiful illustrations by Aglaé Bassens—presents straightforward analogies to explain what deep learning is, why it has become so popular, and how it relates to other machine learning approaches. Krohn has created a practical reference and tutorial for developers, data scientists, researchers, analysts, and students who want to start applying it. He illuminates theory with hands-on Python code in accompanying Jupyter notebooks. To help you progress quickly, he focuses on the versatile deep learning library Keras to nimbly construct efficient TensorFlow models; PyTorch, the leading alternative library, is also covered. You'll gain a pragmatic understanding of all major deep learning approaches and their uses in applications ranging from machine vision and natural language processing to image generation and game-playing algorithms. Discover what makes deep learning systems unique, and the implications for practitioners Explore new tools that make deep learning models easier to build, use, and improve Master essential theory: artificial neurons, training, optimization, convolutional nets, recurrent nets, generative adversarial networks (GANs), deep reinforcement learning, and more Walk through building interactive deep learning applications, and move forward with your own artificial intelligence projects Register your book for convenient access to downloads, updates, and/or corrections as they become available. See inside book for details.

Textbook includes both theories and programs, and covers all recognized AI work in sufficient detail to allow a critique from general concerns to be anchored, whenever possible, in the structure of specific AI programs. -- Amazon.com.

"Artificial Intelligence is all around us - in the news, in our homes, in our phones, in our cars - everywhere. While AI is becoming more ubiquitous in our daily lives, many people don't have a fair understanding of what AI is and how it works. This book aims to address this gap in knowledge by giving readers a pocket guide to the world of AI"--

The past decade has witnessed extraordinary advances in artificial intelligence. But what precisely is it and where does its future lie? In this brilliant, one-stop guide WIRED journalist Matt Burgess explains everything you need to know about AI. He describes how it works. He looks at the ways in which it has already brought us everything from voice recognition software to self-driving cars, and explores its potential for further revolutionary change in almost every area of our daily lives. He examines the darker side of machine learning: its susceptibility to hacking; its tendency to discriminate against particular groups; and its potential misuse by governments. And he addresses the fundamental question: can machines become as intelligent as human beings?

The third edition of this bestseller examines the principles of artificial intelligence and their application to engineering and science, as well as techniques for developing intelligent systems to solve practical problems. Covering the full spectrum of intelligent systems techniques, it incorporates knowledge-based systems, computational intelligence

Keeping the maths to a minimum, Negnevitsky explains the principles of AI, demonstrates how systems are built, what they are useful for and how to choose the right tool for the job.

Have you always wondered how it is that a machine understands what you are saying? Did you wonder how Siri or Alexa always knows exactly what to show you when you ask them something? If you did, you have come to the right place. Machines are able to interpret and understand human beings

and also interpret the data that is fed to them because of artificial intelligence. So, what is artificial intelligence? If you have been reading the basics, you will know that artificial intelligence is a human being's attempt to make a machine smart enough to handle processes that a human being would normally do. It is not easy to do this, since you will need to understand the system and also learn the required programming languages to instruct the computer to behave in the required manner. Before you delve into the world of artificial intelligence, it is important for you to understand the basics so you know what to expect. Over the course of this book, you will gather information about: ●What artificial intelligence is ●The principles of artificial intelligence ●Subjects involved in artificial intelligence ●Some basic concepts used in artificial intelligence ●How machines learn ●The different types of data and how the data is sourced ●Applications of AI in the modern world You will also gather information on how you can train machines to interpret data and provide the required output. Regardless of whether you are an amateur or an expert, you can use this book to guide you through the basics of artificial intelligence. So, what are you waiting for? Click on the buy button and grab a copy of this book now.

A concise but informative overview of AI ethics and policy. Artificial intelligence, or AI for short, has generated a staggering amount of hype in the past several years. Is it the game-changer it's been cracked up to be? If so, how is it changing the game? How is it likely to affect us as customers, tenants, aspiring home-owners, students, educators, patients, clients, prison inmates, members of ethnic and sexual minorities, voters in liberal democracies? This book offers a concise overview of moral, political, legal and economic implications of AI. It covers the basics of AI's latest permutation, machine learning, and considers issues including transparency, bias, liability, privacy, and regulation.

An insightful, engaging tour by a noted Silicon Valley insider of how accelerating developments in Artificial Intelligence will transform the way we live and work Selected as one of the 10 best science and technology books of 2015 by The Economist After billions of dollars and fifty years of effort, researchers are finally cracking the code on artificial intelligence. As society stands on the cusp of unprecedented change, Jerry Kaplan unpacks the latest advances in robotics, machine learning, and perception powering systems that rival or exceed human capabilities. Driverless cars, robotic helpers, and intelligent agents that promote our interests have the potential to usher in a new age of affluence and leisure -- but as Kaplan warns, the transition may be protracted and brutal unless we address the two great scourges of the modern developed world: volatile labor markets and income inequality. He proposes innovative, free-market adjustments to our economic system and social policies to avoid an extended period of social turmoil. His timely and accessible analysis of the promise and perils of artificial intelligence is a must-read for business leaders and policy makers on both sides of the aisle.

If you have ever wondered what drives the many tools we use every day, then keep reading. The Fourth Industrial Revolution is led by Artificial Intelligence technology and setting the humankind for a global social transformation. The powerful applications of AI have already transformed our daily lives. Tools such as virtual personal and home assistants (like Siri in Apple Pods and Alexa in Amazon Echo) have become everyday usage products. Artificial Intelligence and Machine Learning are closely related. They have become an important part of scientific study. Not only does it involve the study of statistical models and algorithms, but also the systems used for task performance. Our aim with

this book is to provide you a 360 view of the fundamentals and importance of Machine Learning Technology for the beginners' level. You Will Learn: The Fundamentals and Concepts of Artificial Intelligence in 2020 The Technology behind AI, and its Rapid growth and Evolution The Advantages and Disadvantages of Artificial Intelligence How AI Helps Business The Importance of Deep Learning Today How the Fields of Data Science and Its Many Applications Helps Your Business Computer Science and Its Applications in Real World Basic Terminology Used in Artificial Intelligence As we cover the basics of Machine Learning and Artificial Intelligence, you will be glad to know that it can be unders-

stood and processed on the beginners' level. Even though it may seem to have some big words. Would You Like to Know More? Download Now to know how Machine Learning is changing our world. Scroll to the top of the page and select the BUY NOW button This book covers everything from machine learning to robotics and the internet of things. By the time you finish reading, you will be aware of what artificial neural networks are, how gradient descent and back propagation work, and what deep learning is.