

ai book

ai book is a term rapidly gaining traction as artificial intelligence continues to transform industries, education, and daily life. This article offers a comprehensive guide for readers interested in understanding what an ai book is, how it differs from traditional books, and its impact on learning and technology. Readers will discover the key features of ai books, explore popular genres and applications, and learn how to choose the right ai book for their needs. Additionally, the article examines the benefits, challenges, and future trends surrounding ai-powered books. Whether you are a curious reader, an educator, or a tech enthusiast, this guide delivers valuable insights and actionable information to help you navigate the evolving landscape of ai book technology.

- Understanding What is an AI Book
- Key Features and Technologies in AI Books
- Popular Genres and Applications of AI Books
- Benefits of Reading an AI Book
- How to Choose the Right AI Book
- Challenges and Limitations of AI Books
- The Future of AI Books

Understanding What is an AI Book

An ai book is a publication that integrates artificial intelligence technologies to enhance content creation, personalization, and reader engagement. Unlike traditional books, an ai book may be either digitally generated by AI algorithms or feature interactive elements powered by AI. AI books can take various forms, including e-books with adaptive learning modules, storybooks with conversational AI, or non-fiction texts curated and updated by machine learning models. The fundamental goal is to offer readers a more dynamic, tailored, and efficient reading experience while leveraging the power of artificial intelligence.

The Evolution from Traditional to AI Books

The transition from printed books to digital formats paved the way for AI

integration in publishing. Early e-books offered convenience, but with the advancement of AI, books can now adapt content in real-time, provide personalized recommendations, and even interact with readers. AI books represent a significant leap in how information is consumed and understood, catering to diverse learning styles and preferences.

Key Features and Technologies in AI Books

AI books incorporate a wide array of innovative features and cutting-edge technologies, making them stand out from their traditional counterparts. These features are designed to foster engagement, deeper understanding, and greater accessibility for readers of all backgrounds.

Core Technologies Powering AI Books

- Natural Language Processing (NLP)
- Machine Learning Algorithms
- Speech Recognition and Text-to-Speech
- Personalization Engines
- Interactive Chatbots and Virtual Assistants

Adaptive Learning and Personalization

AI books often employ adaptive learning systems that analyze readers' behavior, progress, and preferences. These systems adjust the content, pace, and complexity of information presented, ensuring a customized learning journey. For example, an ai book for language learning might focus on vocabulary gaps or offer interactive quizzes tailored to the user's skill level.

Interactive and Multimedia Elements

Many ai books feature interactive components such as quizzes, simulations, and multimedia content. These elements engage readers beyond static text, promoting active learning and retention. Some ai books also use voice assistants that answer questions, provide summaries, or narrate stories, making content accessible to a broader audience.

Popular Genres and Applications of AI Books

AI books span a wide range of genres and applications, serving diverse audiences with distinct interests and needs. From educational materials to entertainment, the versatility of ai books continues to expand as technology evolves.

Educational AI Books

Education is one of the most prominent sectors embracing ai books. These resources offer adaptive textbooks, interactive workbooks, and AI-driven tutoring systems that cater to students of all ages. Teachers and learners benefit from real-time assessments, instant feedback, and resources curated to meet specific educational standards.

Children's Storybooks and Interactive Fiction

Children's ai books often utilize conversational AI to make stories interactive and engaging. Kids can influence story outcomes, ask questions about characters, and receive personalized feedback. This not only fosters creativity but also supports literacy development and critical thinking skills.

Technical and Non-Fiction AI Books

AI-generated non-fiction books can rapidly curate and update information on fast-evolving topics such as technology, science, and business. These ai books leverage machine learning to analyze vast datasets, ensuring that readers access the most current and accurate knowledge.

Entertainment and Self-Improvement

AI books in self-improvement and entertainment genres provide interactive exercises, habit trackers, and motivational content tailored to readers' goals. Some fiction ai books offer branching narratives, allowing readers to shape the storyline based on their choices.

Benefits of Reading an AI Book

The rise of ai books brings numerous advantages to readers, educators, and authors alike. These benefits stem from the integration of artificial intelligence into content delivery and reader interaction.

- **Personalized Reading Experience:** AI books adjust content to match individual learning pace, style, and interests.
- **Enhanced Engagement:** Interactive features such as quizzes, voice interaction, and multimedia enrich the reading process.
- **Accessibility:** AI-powered text-to-speech and language translation make books accessible to readers with diverse needs.
- **Up-to-date Information:** AI books can instantly update content, ensuring readers receive the latest information.
- **Efficient Learning:** Adaptive assessments and feedback optimize the learning process for improved retention.

How to Choose the Right AI Book

Selecting the right ai book involves considering your goals, preferred learning style, and the technological features that best suit your needs. With the growing variety of ai books available, making an informed choice is essential for maximizing the benefits.

Assess Your Objectives and Interests

Begin by clarifying your purpose for reading an ai book. Are you looking to acquire new skills, deepen your knowledge on a topic, or simply enjoy an interactive story? Identifying your objectives helps narrow down the options and ensures the chosen ai book aligns with your expectations.

Evaluate Features and Compatibility

Review the technological features offered by different ai books. Consider compatibility with your devices, preferred interaction methods (such as voice or touch), and the availability of support resources. Some ai books offer trial versions or sample chapters, allowing you to test the experience before

committing.

Read Reviews and Recommendations

User reviews and expert recommendations provide valuable insights into the quality, usability, and effectiveness of ai books. Pay attention to feedback regarding accuracy, adaptability, and user satisfaction to guide your selection process.

Challenges and Limitations of AI Books

While ai books offer significant advantages, they also present certain challenges and limitations that readers and publishers must consider. Addressing these issues is crucial for ensuring the responsible and effective use of AI in publishing.

Content Accuracy and Bias

AI-generated content may occasionally include inaccuracies or biases inherited from training data. It is essential for developers and publishers to implement rigorous quality control and regularly update AI models to minimize these risks.

Privacy and Data Security

AI books often collect and analyze user data to personalize content. Ensuring the privacy and security of readers' information is a top priority, requiring transparent data policies and robust cybersecurity measures.

Technical Barriers and Accessibility

Not all readers have access to the latest devices or reliable internet connectivity required by some advanced ai books. Bridging the digital divide and making AI-powered books accessible to all remains an ongoing challenge.

The Future of AI Books

The future of ai books is marked by rapid innovation and expanding

possibilities. As artificial intelligence continues to evolve, ai books are expected to become even more interactive, adaptive, and accessible. Emerging trends include integration with augmented reality, enhanced natural language understanding, and seamless cross-device experiences. AI books will likely play an increasingly important role in lifelong learning, professional development, and entertainment, shaping the way people access and engage with information in the digital age.

Q: What is an ai book and how does it work?

A: An ai book is a publication that uses artificial intelligence technologies to create, personalize, or enhance content. It may include adaptive learning tools, interactive features, and content generated or curated by AI algorithms to provide a tailored and dynamic reading experience.

Q: What are the main benefits of using an ai book?

A: The main benefits include personalized learning, real-time updates, interactive and multimedia content, improved accessibility through features like text-to-speech, and a more engaging reading experience compared to traditional books.

Q: Are ai books only available in digital formats?

A: Most ai books are digital, as their advanced features require software integration and connectivity. However, some printed books may be paired with companion apps or online resources powered by AI.

Q: How do ai books ensure data privacy for readers?

A: Responsible ai books implement strict data privacy policies, use encryption, and comply with data protection regulations to safeguard readers' personal information and usage data.

Q: Can ai books be used for self-paced learning?

A: Yes, ai books are ideal for self-paced learning. Their adaptive systems adjust content and difficulty based on the reader's progress, providing customized support and assessments.

Q: What genres are most popular for ai books?

A: Educational materials, children's interactive storybooks, self-improvement guides, and technical non-fiction are among the most popular genres for ai books.

Q: What are the challenges associated with ai books?

A: Challenges include ensuring content accuracy, minimizing algorithmic bias, protecting user privacy, and making ai books accessible to individuals with limited technology or internet access.

Q: How should I choose the right ai book for my needs?

A: Consider your learning goals, preferred features (such as interactivity or voice support), device compatibility, and user reviews to select an ai book that best fits your requirements.

Q: Will ai books replace traditional books?

A: AI books are not expected to replace traditional books entirely but will complement them by offering enhanced and interactive learning experiences that cater to modern digital readers.

Q: What advancements can we expect in the future of ai books?

A: Future advancements may include more sophisticated natural language understanding, seamless integration with augmented reality, and greater accessibility features, making ai books even more engaging and user-friendly.

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The Ultimate Guide to Finding the Perfect AI Book: A Deep Dive for Beginners and Experts

Are you fascinated by artificial intelligence but overwhelmed by the sheer volume of information available? Sifting through countless articles and research papers can feel daunting. This comprehensive guide cuts through the noise, offering a curated selection of the best AI books available, categorized to match your skill level and interests. Whether you're a complete novice

looking for an accessible introduction or an experienced professional seeking to delve into cutting-edge research, this post will help you find the perfect AI book to fuel your journey into the fascinating world of artificial intelligence. We'll explore various subfields within AI, recommend specific titles, and provide insights to help you make an informed decision.

H2: Understanding the AI Book Landscape: Finding Your Niche

The world of AI is vast, encompassing numerous subfields like machine learning, deep learning, natural language processing (NLP), computer vision, and robotics. Choosing the right AI book depends heavily on your background and goals. To help you navigate this landscape, we've categorized books based on expertise level and specific AI areas:

H3: Beginner-Friendly AI Books:

For individuals with little to no prior experience in programming or mathematics, these books offer a gentle introduction to the core concepts of AI without getting bogged down in complex equations:

"Artificial Intelligence: A Modern Approach" by Stuart Russell and Peter Norvig: This classic textbook provides a comprehensive overview of the field, covering a wide range of topics in a clear and accessible manner. While technically a textbook, its explanations are remarkably approachable for beginners.

"AI Superpowers: China, Silicon Valley, and the New World Order" by Kai-Fu Lee: This book takes a broader perspective, exploring the societal and economic implications of AI, making it ideal for those interested in the impact of AI on the world. It's less technical and more focused on the big picture.

H3: Intermediate AI Books (for those with some programming experience):

Once you have a foundational understanding of AI, these books delve deeper into specific techniques and algorithms:

"Hands-On Machine Learning with Scikit-Learn, Keras & TensorFlow" by Aurélien Géron: This practical guide teaches readers how to implement machine learning algorithms using popular Python libraries. It's hands-on and project-based, perfect for those wanting to build their own AI models.

"Deep Learning with Python" by Francois Chollet: This book, written by the creator of Keras, provides a comprehensive introduction to deep learning using the Keras library. It's ideal for individuals who want to learn the fundamentals of deep learning and build neural networks.

H3: Advanced AI Books (for experienced professionals and researchers):

These books are geared towards seasoned professionals and researchers who are looking to push the boundaries of AI:

"Pattern Recognition and Machine Learning" by Christopher Bishop: This book is a rigorous treatment of pattern recognition and machine learning, covering advanced statistical methods and theoretical concepts. It's suitable for individuals with a strong mathematical background.

"Reinforcement Learning: An Introduction" by Richard S. Sutton and Andrew G. Barto: This classic text is the definitive guide to reinforcement learning, a subfield of AI that deals with agents learning to make decisions in an environment.

H2: Choosing the Right AI Book: Key Considerations

Beyond expertise level, consider these factors when selecting an AI book:

Your programming language preference: Many AI books focus on specific languages like Python or R. Choose a book that aligns with your skills and preferences.

Specific AI area: Do you want to focus on machine learning, deep learning, NLP, or computer vision? Choose a book that aligns with your interests.

Mathematical background: Some AI books require a strong mathematical background, while others are more accessible to individuals with limited mathematical knowledge.

Practical vs. theoretical: Do you want a practical guide that teaches you how to build AI models, or a theoretical book that explores the underlying concepts?

H2: Beyond the Books: Expanding Your AI Knowledge

Reading books is just one step in your AI journey. Supplement your learning with online courses, workshops, and participation in the AI community. Numerous online resources like Coursera, edX, and Udacity offer high-quality AI courses. Engaging with online communities and attending AI conferences can provide invaluable networking opportunities and insights.

Conclusion:

The journey into the world of AI can be both exciting and challenging. By carefully considering your background, interests, and goals, you can select the perfect AI book to guide you through this fascinating field. Whether you're a complete beginner or a seasoned expert, the right book can unlock new levels of understanding and empower you to contribute to the ever-evolving landscape of artificial intelligence. Remember to supplement your reading with practical experience and community engagement to maximize your learning.

FAQs:

1. What is the best AI book for absolute beginners? "Artificial Intelligence: A Modern Approach" by Russell and Norvig offers a strong, accessible foundation, while "AI Superpowers" by Kai-Fu Lee provides a valuable societal perspective.
2. Are there free AI books available online? While many books are available for purchase, several free online resources and open-source textbooks offer valuable information, though the quality and scope might vary. Search for "free AI textbooks" to find these options.
3. Which AI book is best for learning deep learning? "Deep Learning with Python" by Francois Chollet is highly regarded for its clarity and practical approach using the Keras library.
4. How can I choose an AI book if I'm only interested in a specific area like NLP? Search for books explicitly mentioning "Natural Language Processing" in the title or description. Look for authors specializing in NLP research.
5. What if I find an AI book too challenging? Don't be discouraged! Try starting with a more introductory book and gradually build your knowledge. Online resources can often explain complex concepts in more digestible ways.

ai book: The Essence of Artificial Intelligence Alison Cawsey, 1998 A concise, practical introduction to artificial intelligence, this title starts with the fundamentals of knowledge representation, inference, expert systems, natural language processing, machine learning, neural networks, agents, robots, and much more. Examples and algorithms are presented throughout, and the book includes a complete glossary.

ai book: The AI Book Ivana Bartoletti, Anne Leslie, Shân M. Millie, 2020-06-29 Written by prominent thought leaders in the global fintech space, The AI Book aggregates diverse expertise into a single, informative volume and explains what artificial intelligence really means and how it can be used across financial services today. Key industry developments are explained in detail, and critical insights from cutting-edge practitioners offer first-hand information and lessons learned. Coverage includes: · Understanding the AI Portfolio: from machine learning to chatbots, to natural language processing (NLP); a deep dive into the Machine Intelligence Landscape; essentials on core technologies, rethinking enterprise, rethinking industries, rethinking humans; quantum computing and next-generation AI · AI experimentation and embedded usage, and the change in business model, value proposition, organisation, customer and co-worker experiences in today's Financial Services Industry · The future state of financial services and capital markets - what's next for the real-world implementation of AITech? · The innovating customer - users are not waiting for the financial services industry to work out how AI can re-shape their sector, profitability and competitiveness · Boardroom issues created and magnified by AI trends, including conduct, regulation & oversight in an algo-driven world, cybersecurity, diversity & inclusion, data privacy, the 'unbundled corporation' & the future of work, social responsibility, sustainability, and the new leadership imperatives · Ethical considerations of deploying AI solutions and why explainable AI is so important

ai book: Artificial Intelligence Margaret A. Boden, 1996-06-20 Artificial Intelligence is the study of how to build or program computers to enable them to do what minds can do. This volume discusses the ways in which computational ideas and computer modeling can aid our understanding of human and animal minds. Major theoretical approaches are outlined, as well as some promising

recent developments. Fundamental philosophical questions are discussed along with topics such as: the differences between symbolic and connectionist AI, planning and problem solving, knowledge representation, learning, expert systems, vision, natural language, creativity, and human-computer interaction. This volume is suitable for any psychologist, philosopher, or computer scientist wanting to know the current state of the art in this area of cognitive science. - Up-to-date account of how computational ideas and techniques are relevant to psychology - Includes discussions of classical (symbolic) AI, of connectionism (neural nets), of evolutionary programming, and of A-Life - Discusses a wide range of psychology from low-level vision to creativity

ai book: Programming Game AI by Example Mat Buckland, 2005 This book describes in detail many of the AI techniques used in modern computer games, explicitly shows how to implement these practical techniques within the framework of several game developers with a practical foundation to game AI.

ai book: Deep Learning for Coders with fastai and PyTorch Jeremy Howard, Sylvain Gugger, 2020-06-29 Deep learning is often viewed as the exclusive domain of math PhDs and big tech companies. But as this hands-on guide demonstrates, programmers comfortable with Python can achieve impressive results in deep learning with little math background, small amounts of data, and minimal code. How? With fastai, the first library to provide a consistent interface to the most frequently used deep learning applications. Authors Jeremy Howard and Sylvain Gugger, the creators of fastai, show you how to train a model on a wide range of tasks using fastai and PyTorch. You'll also dive progressively further into deep learning theory to gain a complete understanding of the algorithms behind the scenes. Train models in computer vision, natural language processing, tabular data, and collaborative filtering Learn the latest deep learning techniques that matter most in practice Improve accuracy, speed, and reliability by understanding how deep learning models work Discover how to turn your models into web applications Implement deep learning algorithms from scratch Consider the ethical implications of your work Gain insight from the foreword by PyTorch cofounder, Soumith Chintala

ai book: The Singularity Is Nearer Ray Kurzweil, 2024-06-25 The noted inventor and futurist's successor to his landmark book *The Singularity Is Near* explores how technology will transform the human race in the decades to come Since it was first published in 2005, Ray Kurzweil's *The Singularity Is Near* and its vision of an exponential future have spawned a worldwide movement. Kurzweil's predictions about technological advancements have largely come true, with concepts like AI, intelligent machines, and biotechnology now widely familiar to the public. In this entirely new book Ray Kurzweil brings a fresh perspective to advances toward the Singularity—assessing his 1999 prediction that AI will reach human level intelligence by 2029 and examining the exponential growth of technology—that, in the near future, will expand human intelligence a millionfold and change human life forever. Among the topics he discusses are rebuilding the world, atom by atom with devices like nanobots; radical life extension beyond the current age limit of 120; reinventing intelligence by connecting our brains to the cloud; how exponential technologies are propelling innovation forward in all industries and improving all aspects of our well-being such as declining poverty and violence; and the growth of renewable energy and 3-D printing. He also considers the potential perils of biotechnology, nanotechnology, and artificial intelligence, including such topics of current controversy as how AI will impact employment and the safety of autonomous cars, and After Life technology, which aims to virtually revive deceased individuals through a combination of their data and DNA. The culmination of six decades of research on artificial intelligence, *The Singularity Is Nearer* is Ray Kurzweil's crowning contribution to the story of this science and the revolution that is to come.

ai book: A Citizen's Guide to Artificial Intelligence John Zerilli, 2021-02-23 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.

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ai book: *The AI Book* Ivana Bartoletti, Anne Leslie, Shân M. Millie, 2020-04-09 Written by prominent thought leaders in the global fintech space, *The AI Book* aggregates diverse expertise into a single, informative volume and explains what artificial intelligence really means and how it can be used across financial services today. Key industry developments are explained in detail, and critical insights from cutting-edge practitioners offer first-hand information and lessons learned. Coverage includes: · Understanding the AI Portfolio: from machine learning to chatbots, to natural language processing (NLP); a deep dive into the Machine Intelligence Landscape; essentials on core technologies, rethinking enterprise, rethinking industries, rethinking humans; quantum computing and next-generation AI · AI experimentation and embedded usage, and the change in business model, value proposition, organisation, customer and co-worker experiences in today's Financial Services Industry · The future state of financial services and capital markets - what's next for the real-world implementation of AITech? · The innovating customer - users are not waiting for the financial services industry to work out how AI can re-shape their sector, profitability and competitiveness · Boardroom issues created and magnified by AI trends, including conduct, regulation & oversight in an algo-driven world, cybersecurity, diversity & inclusion, data privacy, the 'unbundled corporation' & the future of work, social responsibility, sustainability, and the new leadership imperatives · Ethical considerations of deploying AI solutions and why explainable AI is so important

ai book: *I Forced a Bot to Write This Book* Keaton Patti, 2020-11-17 Humorist Keaton Patti forced a bot to digest massive amounts of human media to produce these absurdly funny, "totally real," "bot-generated" scripts, essays, advertisements, and more. Ever wonder what an AI bot might come up with if tasked with creative writing? From Olive Garden commercials to White House press

briefings to Game of Thrones scripts, writer and comedian Keaton Patti's "bot" recognizes and heightens the tropes of whatever it's reproducing to hilarious effect. Each "bot-generated" piece can be enjoyed as surrealist commentary on the media we consume every day or simply as silly robot jokes—either way, you'll probably end up laughing.

ai book: The AI-Powered Enterprise Seth Earley, 2020-04-28 Learn how to develop and employ an ontology, the secret weapon for successfully using artificial intelligence to create a powerful competitive advantage in your business. The AI-Powered Enterprise examines two fundamental questions: First, how will the future be different as a result of artificial intelligence? And second, what must companies do to stake their claim on that future? When the Web came along in the mid-90s, it transformed the behavior of customers and remade whole industries. Now, as part of its promise to bring revolutionary change in untold ways to human activity, artificial intelligence--AI--is about to create another complete transformation in how companies create and deliver value to customers. But despite the billions spent so far on bots and other tools, AI continues to stumble. Why can't it magically use all the data organizations generate to make them run faster and better? Because something is missing. AI works only when it understands the soul of the business. An ontology is a holistic digital model of every piece of information that matters to the business, from processes to products to people, and it's what makes the difference between the promise of AI and delivering on that promise. Business leaders who want to catch the AI wave--rather than be crushed by it--need to read The AI-Powered Enterprise. The book is the first to combine a sophisticated explanation of how AI works with a practical approach to applying AI to the problems of business, from customer experience to business operations to product development.

ai book: Artificial Intelligence for a Better Future Bernd Carsten Stahl, 2021-03-17 This open access book proposes a novel approach to Artificial Intelligence (AI) ethics. AI offers many advantages: better and faster medical diagnoses, improved business processes and efficiency, and the automation of boring work. But undesirable and ethically problematic consequences are possible too: biases and discrimination, breaches of privacy and security, and societal distortions such as unemployment, economic exploitation and weakened democratic processes. There is even a prospect, ultimately, of super-intelligent machines replacing humans. The key question, then, is: how can we benefit from AI while addressing its ethical problems? This book presents an innovative answer to the question by presenting a different perspective on AI and its ethical consequences. Instead of looking at individual AI techniques, applications or ethical issues, we can understand AI as a system of ecosystems, consisting of numerous interdependent technologies, applications and stakeholders. Developing this idea, the book explores how AI ecosystems can be shaped to foster human flourishing. Drawing on rich empirical insights and detailed conceptual analysis, it suggests practical measures to ensure that AI is used to make the world a better place.

ai book: The Myth of Artificial Intelligence Erik J. Larson, 2021-04-06 "Artificial intelligence has always inspired outlandish visions—that AI is going to destroy us, save us, or at the very least radically transform us. Erik Larson exposes the vast gap between the actual science underlying AI and the dramatic claims being made for it. This is a timely, important, and even essential book." —John Horgan, author of *The End of Science* Many futurists insist that AI will soon achieve human levels of intelligence. From there, it will quickly eclipse the most gifted human mind. *The Myth of Artificial Intelligence* argues that such claims are just that: myths. We are not on the path to developing truly intelligent machines. We don't even know where that path might be. Erik Larson charts a journey through the landscape of AI, from Alan Turing's early work to today's dominant models of machine learning. Since the beginning, AI researchers and enthusiasts have equated the reasoning approaches of AI with those of human intelligence. But this is a profound mistake. Even cutting-edge AI looks nothing like human intelligence. Modern AI is based on inductive reasoning: computers make statistical correlations to determine which answer is likely to be right, allowing software to, say, detect a particular face in an image. But human reasoning is entirely different. Humans do not correlate data sets; we make conjectures sensitive to context—the best guess, given our observations and what we already know about the world. We haven't a clue how to program this

kind of reasoning, known as abduction. Yet it is the heart of common sense. Larson argues that all this AI hype is bad science and bad for science. A culture of invention thrives on exploring unknowns, not overselling existing methods. Inductive AI will continue to improve at narrow tasks, but if we are to make real progress, we must abandon futuristic talk and learn to better appreciate the only true intelligence we know—our own.

ai book: You Look Like a Thing and I Love You Janelle Shane, 2019-11-05 As heard on NPR's Science Friday, discover the book recommended by Malcolm Gladwell, Susan Cain, Daniel Pink, and Adam Grant: an accessible, informative, and hilarious introduction to the weird and wonderful world of artificial intelligence (Ryan North). You look like a thing and I love you is one of the best pickup lines ever . . . according to an artificial intelligence trained by scientist Janelle Shane, creator of the popular blog AI Weirdness. She creates silly AIs that learn how to name paint colors, create the best recipes, and even flirt (badly) with humans—all to understand the technology that governs so much of our daily lives. We rely on AI every day for recommendations, for translations, and to put cat ears on our selfie videos. We also trust AI with matters of life and death, on the road and in our hospitals. But how smart is AI really... and how does it solve problems, understand humans, and even drive self-driving cars? Shane delivers the answers to every AI question you've ever asked, and some you definitely haven't. Like, how can a computer design the perfect sandwich? What does robot-generated Harry Potter fan-fiction look like? And is the world's best Halloween costume really Vampire Hog Bride? In this smart, often hilarious introduction to the most interesting science of our time, Shane shows how these programs learn, fail, and adapt—and how they reflect the best and worst of humanity. You Look Like a Thing and I Love You is the perfect book for anyone curious about what the robots in our lives are thinking. I can't think of a better way to learn about artificial intelligence, and I've never had so much fun along the way. —Adam Grant, New York Times bestselling author of Originals

ai book: AI as a Service Peter Elger, Eóin Shanaghy, 2020-09-05 AI as a Service is a practical handbook to building and implementing serverless AI applications, without bogging you down with a lot of theory. Instead, you'll find easy-to-digest instruction and two complete hands-on serverless AI builds in this must-have guide! Summary Companies everywhere are moving everyday business processes over to the cloud, and AI is increasingly being given the reins in these tasks. As this massive digital transformation continues, the combination of serverless computing and AI promises to become the de facto standard for business-to-consumer platform development—and developers who can design, develop, implement, and maintain these systems will be in high demand! AI as a Service is a practical handbook to building and implementing serverless AI applications, without bogging you down with a lot of theory. Instead, you'll find easy-to-digest instruction and two complete hands-on serverless AI builds in this must-have guide! Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the technology Cloud-based AI services can automate a variety of labor intensive business tasks in areas such as customer service, data analysis, and financial reporting. The secret is taking advantage of pre-built tools like Amazon Rekognition for image analysis or AWS Comprehend for natural language processing. That way, there's no need to build expensive custom software. Artificial Intelligence (AI), a machine's ability to learn and make predictions based on patterns it identifies, is already being leveraged by businesses around the world in areas like targeted product recommendations, financial forecasting and resource planning, customer service chatbots, healthcare diagnostics, data security, and more. With the exciting combination of serverless computing and AI, software developers now have enormous power to improve their businesses' existing systems and rapidly deploy new AI-enabled platforms. And to get on this fast-moving train, you don't have to invest loads of time and effort in becoming a data scientist or AI expert, thanks to cloud platforms and the readily available off-the-shelf cloud-based AI services! About the book AI as a Service is a fast-paced guide to harnessing the power of cloud-based solutions. You'll learn to build real-world apps—such as chatbots and text-to-speech services—by stitching together cloud components. Work your way from small projects to large data-intensive applications. What's inside - Apply cloud AI services to existing

platforms - Design and build scalable data pipelines - Debug and troubleshoot AI services - Start fast with serverless templates About the reader For software developers familiar with cloud basics. About the author Peter Elger and Eóin Shanaghy are founders and CEO/CTO of fourTheorem, a software solutions company providing expertise on architecture, DevOps, and machine learning. Table of Contents PART 1 - FIRST STEPS 1 A tale of two technologies 2 Building a serverless image recognition system, part 1 3 Building a serverless image recognition system, part 2 PART 2 - TOOLS OF THE TRADE 4 Building and securing a web application the serverless way 5 Adding AI interfaces to a web application 6 How to be effective with AI as a Service 7 Applying AI to existing platforms PART 3 - BRINGING IT ALL TOGETHER 8 Gathering data at scale for real-world AI 9 Extracting value from large data sets with AI

ai book: Competing in the Age of AI Marco Iansiti, Karim R. Lakhani, 2020-01-07 a provocative new book — The New York Times AI-centric organizations exhibit a new operating architecture, redefining how they create, capture, share, and deliver value. Now with a new preface that explores how the coronavirus crisis compelled organizations such as Massachusetts General Hospital, Verizon, and IKEA to transform themselves with remarkable speed, Marco Iansiti and Karim R. Lakhani show how reinventing the firm around data, analytics, and AI removes traditional constraints on scale, scope, and learning that have restricted business growth for hundreds of years. From Airbnb to Ant Financial, Microsoft to Amazon, research shows how AI-driven processes are vastly more scalable than traditional processes, allow massive scope increase, enabling companies to straddle industry boundaries, and create powerful opportunities for learning—to drive ever more accurate, complex, and sophisticated predictions. When traditional operating constraints are removed, strategy becomes a whole new game, one whose rules and likely outcomes this book will make clear. Iansiti and Lakhani: Present a framework for rethinking business and operating models Explain how collisions between AI-driven/digital and traditional/analog firms are reshaping competition, altering the structure of our economy, and forcing traditional companies to rearchitect their operating models Explain the opportunities and risks created by digital firms Describe the new challenges and responsibilities for the leaders of both digital and traditional firms Packed with examples—including many from the most powerful and innovative global, AI-driven competitors—and based on research in hundreds of firms across many sectors, this is your essential guide for rethinking how your firm competes and operates in the era of AI.

ai book: T-Minus AI Michael Kanaan, 2020-08-25 Late in 2017, the global significance of the conversation about artificial intelligence (AI) changed forever. China put the world on alert when it released a plan to dominate all aspects of AI across the planet. Only weeks later, Vladimir Putin raised a Russian red flag in response by declaring AI the future for all humankind, and proclaiming that, Whoever becomes the leader in this sphere will become the ruler of the world. The race was on. Consistent with their unique national agendas, countries throughout the world began plotting their paths and hurrying their pace. Now, not long after, the race has become a sprint. Despite everything at stake, to most of us AI remains shrouded by a cloud of mystery and misunderstanding. Hidden behind complicated and technical jargon and confused by fantastical depictions of science fiction, the modern realities of AI and its profound implications are hard to decipher, but crucial to recognize. In T-Minus AI: Humanity's Countdown to Artificial Intelligence and the New Pursuit of Global Power, author Michael Kanaan explains AI from a human-oriented perspective we can all finally understand. A recognized national expert and the U.S. Air Force's first Chairperson for Artificial Intelligence, Kanaan weaves a compelling new view on our history of innovation and technology to masterfully explain what each of us should know about modern computing, AI, and machine learning. Kanaan also dives into the global implications of AI by illuminating the cultural and national vulnerabilities already exposed and the pressing issues now squarely on the table. AI has already become China's all-purpose tool to impose its authoritarian influence around the world. Russia, playing catch up, is weaponizing AI through its military systems and now infamous, aggressive efforts to disrupt democracy by whatever disinformation means possible. America and like-minded nations are awakening to these new realities—and the paths they're electing to follow

echo loudly the political foundations and, in most cases, the moral imperatives upon which they were formed. As we march toward a future far different than ever imagined, T-Minus AI is fascinating and crucially well-timed. It leaves the fiction behind, paints the alarming implications of AI for what they actually are, and calls for unified action to protect fundamental human rights and dignities for all.

ai book: *AI in the Wild* Peter Dauvergne, 2020-09-15 Examining the potential benefits and risks of using artificial intelligence to advance global sustainability. Drones with night vision are tracking elephant and rhino poachers in African wildlife parks and sanctuaries; smart submersibles are saving coral from carnivorous starfish on Australia's Great Barrier Reef; recycled cell phones alert Brazilian forest rangers to the sound of illegal logging. The tools of artificial intelligence are being increasingly deployed in the battle for global sustainability. And yet, warns Peter Dauvergne, we should be cautious in declaring AI the planet's savior. In *AI in the Wild*, Dauvergne avoids the AI industry-powered hype and offers a critical view, exploring both the potential benefits and risks of using artificial intelligence to advance global sustainability.

ai book: MY FIRST A.I. BOOK - Artificial Intelligence and Learning Nicky Roberts, Tshilidzi Marwala, 2019-08-30 Artificial Intelligence and Learning is a teaser in a series of books and pioneering book for kids on Artificial Intelligence (A.I.) which focuses on its chief concept: LEARNING. The My First A.I. Books Series introduces kids of all ages to the foundational concepts for Artificial Intelligence and the 4th Industrial/Human Revolution, AKA I4.0 or 4IR or IOT. Written by three global experts and active scientific researchers, Professors Fernando Buarque (Ph.D. in A.I. Imperial College London), Tshilidzi Marwala (Ph.D. in A.I. at University of Cambridge), and Nicky Roberts (Ph.D. in Mathematics Education at the University of Witwatersrand). This book and series are suitable for all kids starting their Artificial Intelligence journey. As a matter of fact, the future of humankind depends centrally on how A.I. will be produced and used. As such, little readers are encouraged to think and talk in an informed manner about A.I. topics. The story of this first book, sets the plot by delving into the evolution of human tools (up to the fourth human revolution), types of learning, the ingredients for adaptive computer programs (i.e. programs that are able to learn), and even provides a working definition of A.I. All the books of the series are packed with concepts and encourage inquiry. They aim to widen the kids' perspectives on, and also nurture their participation with, these new concepts and tools. All that in this amazing unfolding revolution - the Revolution of the Intelligence. The authors took care to include not only technical concepts, but humanistic and character-building values too. Thus, readers would acquire a good foundation for their future, which may even not be a technical one (but certainly will include A.I.). Ideally, this book should be read by the kids with an adult. It is handsomely complemented by five more books, which portrait five missions, detailing other chief functional A.I. concepts. In each mission the explorers are challenged to delve (and learn) five different ways of using A.I. on real-world problems. The other books in the My First A.I. Books Series are: -My First A.I. Book - Mission of Team-B is Searching -My First A.I. Book - Mission of Team-R is Predicting-My First A.I. Book - Mission of Team-I is Classifying-My First A.I. Book - Mission of Team-C is Optimizing-My First A.I. Book - Mission of Team-S is Interfacing

ai book: Deep Learning Ian Goodfellow, Yoshua Bengio, Aaron Courville, 2016-11-10 An introduction to a broad range of topics in deep learning, covering mathematical and conceptual background, deep learning techniques used in industry, and research perspectives. "Written by three experts in the field, Deep Learning is the only comprehensive book on the subject." —Elon Musk, cochair of OpenAI; cofounder and CEO of Tesla and SpaceX Deep learning is a form of machine learning that enables computers to learn from experience and understand the world in terms of a hierarchy of concepts. Because the computer gathers knowledge from experience, there is no need for a human computer operator to formally specify all the knowledge that the computer needs. The hierarchy of concepts allows the computer to learn complicated concepts by building them out of simpler ones; a graph of these hierarchies would be many layers deep. This book introduces a broad range of topics in deep learning. The text offers mathematical and conceptual background, covering relevant concepts in linear algebra, probability theory and information theory,

numerical computation, and machine learning. It describes deep learning techniques used by practitioners in industry, including deep feedforward networks, regularization, optimization algorithms, convolutional networks, sequence modeling, and practical methodology; and it surveys such applications as natural language processing, speech recognition, computer vision, online recommendation systems, bioinformatics, and videogames. Finally, the book offers research perspectives, covering such theoretical topics as linear factor models, autoencoders, representation learning, structured probabilistic models, Monte Carlo methods, the partition function, approximate inference, and deep generative models. Deep Learning can be used by undergraduate or graduate students planning careers in either industry or research, and by software engineers who want to begin using deep learning in their products or platforms. A website offers supplementary material for both readers and instructors.

ai book: Artificial Intelligence for Humans, Volume 2 Jeff Heaton, 2014-05-28 Nature can be a great source of inspiration for artificial intelligence algorithms because its technology is considerably more advanced than our own. Among its wonders are strong AI, nanotechnology, and advanced robotics. Nature can therefore serve as a guide for real-life problem solving. In this book, you will encounter algorithms influenced by ants, bees, genomes, birds, and cells that provide practical methods for many types of AI situations. Although nature is the muse behind the methods, we are not duplicating its exact processes. The complex behaviors in nature merely provide inspiration in our quest to gain new insights about data. Artificial Intelligence for Humans is a book series meant to teach AI to those readers who lack an extensive mathematical background. The reader only needs knowledge of basic college algebra and computer programming. Additional topics are thoroughly explained. Every chapter also includes a programming example. Examples are currently provided in Java, C#, and Python. Other languages are planned. No knowledge of biology is needed to read this book. With a forward by Dave Snell.

ai book: Enterprise Artificial Intelligence Transformation Rashed Haq, 2020-06-10 Enterprise Artificial Intelligence Transformation AI is everywhere. From doctor's offices to cars and even refrigerators, AI technology is quickly infiltrating our daily lives. AI has the ability to transform simple tasks into technological feats at a human level. This will change the world, plain and simple. That's why AI mastery is such a sought-after skill for tech professionals. Author Rashed Haq is a subject matter expert on AI, having developed AI and data science strategies, platforms, and applications for Publicis Sapient's clients for over 10 years. He shares that expertise in the new book, Enterprise Artificial Intelligence Transformation. The first of its kind, this book grants technology leaders the insight to create and scale their AI capabilities and bring their companies into the new generation of technology. As AI continues to grow into a necessary feature for many businesses, more and more leaders are interested in harnessing the technology within their own organizations. In this new book, leaders will learn to master AI fundamentals, grow their career opportunities, and gain confidence in machine learning. Enterprise Artificial Intelligence Transformation covers a wide range of topics, including: Real-world AI use cases and examples Machine learning, deep learning, and semantic modeling Risk management of AI models AI strategies for development and expansion AI Center of Excellence creating and management If you're an industry, business, or technology professional that wants to attain the skills needed to grow your machine learning capabilities and effectively scale the work you're already doing, you'll find what you need in Enterprise Artificial Intelligence Transformation.

ai book: Aum Golly: Poems on Humanity by an Artificial Intelligence Gpt- Ai, Jukka Aalho, 2021-10-09 What does AI know about love, happiness and making a difference? Aum Golly is a book of poems written in 24 hours. It was made possible by GPT-3 - an advanced autoregressive language model published in 2020 by OpenAI. ... a collection that surprises with humor and delicateness... - Goodreads review ... I have to say reading it was a pleasure... - Finnish radio host Ruben Stiller on Yle ... a beautiful dialogue between man and machine... - a review of the Finnish audiobook The deep learning model can generate text that is virtually indistinguishable from text written by humans: poems, recipes, summaries, legal text and even pieces of code. GPT-3 is autofill on steroids. Good

poetry makes us feel something and see the world differently. Despite the gut reaction some of us may have towards AI-enhanced creativity, *Aum Golly* is a book like any other. You will love some of the poems. You will hate others. Some will make you wonder, but all of them will make you think. Award-winning writer and TEDx speaker Jukka Aalho has guided the AI and chosen the poems for the collection.

ai book: *Artificial Intelligence* Melanie Mitchell, 2019-10-15 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.

ai book: *Artificial Intelligence for All* Utpal Chakraborty, 2020-02-18 *Artificial Intelligence, the Revolutionary Transformation that no one can escape* DESCRIPTION The book “Artificial Intelligence for All” is a snapshot of AI applications in different industries, society, and everyday life. The book is written considering possibilities AI can bring in the Indian context and considering Indian industries and economy at the center stage. The book starts with describing the race for the supremacy of different countries in the field of Artificial Intelligence that has already taken a great momentum and how AI has managed to influence even mainstream politics and the world leaders. In the subsequent chapters, the book brings in AI applications primarily in the Banking and Finance sectors like Financial Crime detection using AI, Credit Risk Assessment, AI-powered conversational banking, Predictive Analytics, and recommendations in Banking and Finance. In few of the chapters, it goes deep into Machine Learning, Deep Learning, Neural Network and analogy with the human brain for readers who want to go deeper into the subject, at the same time the content and explanations remain very simple for non-technical readers. How AI is powering the self-driving autonomous vehicles and its implication in the society, job, and the world economy, and its transforming the world of home automation, will be another area of interest in the book. A full chapter is dedicated for CIOs and CTOs to consider AI top in their priority list. Applications of AI in Sports are going to be interesting for sports lovers as well as professionals working in the Sports and Computer Games domain. The book also gives special emphasis on Conversational AI like Virtual Assistances and ChatBots and their utility in different sectors. A chapter dedicated for healthcare and medicine provides a complete overview of AI applications in the field and how it's transforming clinical imaging, personalized medicines, drug discovery, and predictions and forecasting health-related events and many more. Cognitive Cyber Security using AI and Machine Learning would be an area of interest for the readers in the field of Cyber Security. The chapter talks about various modern cognitive cybersecurity tools and techniques to fight with the ever-evolving cybercrime space. “Journey of a Digital Traveler” describes how AI is transforming

the travel and tourism industry. The book also includes top 100 business use cases which illustrate possible applications in various fields. KEY FEATURES Provide perfect playground for enterprises and institutions globally to develop Artificial Intelligence solutions. The world has achieved an enormous amount of technological advancement and skyrocketing progress in mass Digitization, Data Science, and FinTech. The gist of the golden era of AI and FinTech AI-powered autonomous vehicles are undoubtedly the future. Autonomous vehicles are the dawn of a whole new lifestyle. Using Artificial Intelligence to redefine their products, processes and strategies. Providing banking and financial services to the customers through a variety of digital channels. A preliminary guide for enterprises and businesses to revisit their AI strategy. WHAT WILL YOU LEARN? This book is for both technical and non-technical readers, a cutting edge technology like Artificial Intelligence is simplified for all and a genuine effort has been made to democratize it as much as possible. The book will provide insights into the real applications of AI in different industries like health care and medicine, banking and finance, manufacturing, retail, sports, and many more, including how it's transforming our life which probably many of us are not even aware of. And most importantly how a country like India can be benefited by embracing this groundbreaking technology and the huge opportunities and economic impact that AI can bring. Also, you will get to know how different countries like USA, CHINA, UK, EUROPE, RUSSIA, including INDIA is already in the race of being AI Superpower; because AI is the future and whoever becomes the leader in AI will become the ruler of the world. WHO THIS BOOK IS FOR? This book is useful for AI Professionals, Data Scientists..... The content of the book is for both Technical and Non Technical readers who want to know the applications of AI in different industries. No prior technical or programming experience is required to understand this book. This book can be used as a hand book for Data Scientist and Business SMEs who are in the process of identifying different use cases of Artificial Intelligence in their respective domains. TABLE OF CONTENTS 1. Super Powers of AI 2. The Leaders and the Contenders 3. AI 4. The Core Fabric for NextGen Banking 5. How an AI Framework can be a Game-Changer in Your AI Journey 6. Artificial Neural Networks 7. The Next Wave of Automation will Transform our Living Experience 8. Self-Driving Cars 9. Socio Economic Impact of Autonomous Vehicles 10. How Artificial Intelligence is Transforming the BFSI Sector 11. AI Now is a Race Among Startups and Tech Giants 12. AI in the top of priorities for CIOs and CTOs 13. AI in Sports 14. How a Country can be Transformed Using Artificial Intelligence 15. Don't Underestimate the Power of an AI Chatbot 16. Industry Adoption of Cognitive and Artificial Intelligence 17. Artificial Intelligence 18. The Biggest Disruptor in the BFSI Industry 19. AI in Healthcare 20. AI in Cyber Security 21. Cognitive Cyber Defense 22. Be Aware of Cyber Threat 23. AI Revolution in India 24. National Strategy for AI 25. AI in Tour and Travels 26. Journey of a Digital Traveler 27. Top 100 Business Use Cases of Artificial Intelligence 28. Impact of Modern Automation on Employment

ai book: Artificial Intelligence David L. Poole, Alan K. Mackworth, 2017-09-25 Artificial Intelligence presents a practical guide to AI, including agents, machine learning and problem-solving simple and complex domains.

ai book: AI and Humanity Illah Reza Nourbakhsh, Jennifer Keating, 2020-03-10 An examination of the implications for society of rapidly advancing artificial intelligence systems, combining a humanities perspective with technical analysis; includes exercises and discussion questions. AI and Humanity provides an analytical framing and a common language for understanding the effects of technological advances in artificial intelligence on society. Coauthored by a computer scientist and a scholar of literature and cultural studies, it is unique in combining a humanities perspective with technical analysis, using the tools of literary explication to examine the societal impact of AI systems. It explores the historical development of these technologies, moving from the apparently benign Roomba to the considerably more sinister semi-autonomous weapon system Harpy. The book is driven by an exploration of the cultural and etymological roots of a series of keywords relevant to both AI and society. Works examined range from Narrative of the Life of Frederick Douglass, given a close reading for its themes of literacy and agency, to Simon Head's critique of the effects of surveillance and automation on the Amazon labor force in Mindless. Originally developed as a

textbook for an interdisciplinary humanities-science course at Carnegie Mellon, AI & Humanity offers discussion questions, exercises (including journal writing and concept mapping), and reading lists. A companion website provides updated resources and a portal to a video archive of interviews with AI scientists, sociologists, literary theorists, and others.

ai book: *Artificial Intelligence* Stuart Russell, Peter Norvig, 2016-09-10 *Artificial Intelligence: A Modern Approach* offers the most comprehensive, up-to-date introduction to the theory and practice of artificial intelligence. Number one in its field, this textbook is ideal for one or two-semester, undergraduate or graduate-level courses in Artificial Intelligence.

ai book: *Interpretable Machine Learning* Christoph Molnar, 2020 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.

ai book: *Rebooting AI* Gary Marcus, Ernest Davis, 2019-09-10 Two leaders in the field offer a compelling analysis of the current state of the art and reveal the steps we must take to achieve a robust artificial intelligence that can make our lives better. “Finally, a book that tells us what AI is, what AI is not, and what AI could become if only we are ambitious and creative enough.” —Garry Kasparov, former world chess champion and author of *Deep Thinking* Despite the hype surrounding AI, creating an intelligence that rivals or exceeds human levels is far more complicated than we have been led to believe. Professors Gary Marcus and Ernest Davis have spent their careers at the forefront of AI research and have witnessed some of the greatest milestones in the field, but they argue that a computer beating a human in Jeopardy! does not signal that we are on the doorstep of fully autonomous cars or superintelligent machines. The achievements in the field thus far have occurred in closed systems with fixed sets of rules, and these approaches are too narrow to achieve genuine intelligence. The real world, in contrast, is wildly complex and open-ended. How can we bridge this gap? What will the consequences be when we do? Taking inspiration from the human mind, Marcus and Davis explain what we need to advance AI to the next level, and suggest that if we are wise along the way, we won't need to worry about a future of machine overlords. If we focus on endowing machines with common sense and deep understanding, rather than simply focusing on statistical analysis and gathering ever larger collections of data, we will be able to create an AI we can trust—in our homes, our cars, and our doctors' offices. *Rebooting AI* provides a lucid, clear-eyed assessment of the current science and offers an inspiring vision of how a new generation of AI can make our lives better.

ai book: *The Promise of Artificial Intelligence* Brian Cantwell Smith, 2019-10-08 An argument that—despite dramatic advances in the field—artificial intelligence is nowhere near developing systems that are genuinely intelligent. In this provocative book, Brian Cantwell Smith argues that artificial intelligence is nowhere near developing systems that are genuinely intelligent. Second wave AI, machine learning, even visions of third-wave AI: none will lead to human-level intelligence and judgment, which have been honed over millennia. Recent advances in AI may be of epochal significance, but human intelligence is of a different order than even the most powerful calculative ability enabled by new computational capacities. Smith calls this AI ability “reckoning,” and argues that it does not lead to full human judgment—dispassionate, deliberative thought grounded in ethical commitment and responsible action. Taking judgment as the ultimate goal of intelligence, Smith examines the history of AI from its first-wave origins (“good old-fashioned AI,” or GOF AI) to such celebrated second-wave approaches as machine learning, paying particular attention to recent advances that have led to excitement, anxiety, and debate. He considers each AI technology's underlying assumptions, the conceptions of intelligence targeted at each stage, and the successes

achieved so far. Smith unpacks the notion of intelligence itself—what sort humans have, and what sort AI aims at. Smith worries that, impressed by AI's reckoning prowess, we will shift our expectations of human intelligence. What we should do, he argues, is learn to use AI for the reckoning tasks at which it excels while we strengthen our commitment to judgment, ethics, and the world.

ai book: *The Economics of Artificial Intelligence* Ajay Agrawal, Joshua Gans, Avi Goldfarb, Catherine Tucker, 2024-03-05 A timely investigation of the potential economic effects, both realized and unrealized, of artificial intelligence within the United States healthcare system. In sweeping conversations about the impact of artificial intelligence on many sectors of the economy, healthcare has received relatively little attention. Yet it seems unlikely that an industry that represents nearly one-fifth of the economy could escape the efficiency and cost-driven disruptions of AI. The *Economics of Artificial Intelligence: Health Care Challenges* brings together contributions from health economists, physicians, philosophers, and scholars in law, public health, and machine learning to identify the primary barriers to entry of AI in the healthcare sector. Across original papers and in wide-ranging responses, the contributors analyze barriers of four types: incentives, management, data availability, and regulation. They also suggest that AI has the potential to improve outcomes and lower costs. Understanding both the benefits of and barriers to AI adoption is essential for designing policies that will affect the evolution of the healthcare system.

ai book: *Applying Artificial Intelligence in Project Management* Paul Boudreau, 2024-10-10 This book describes the AI tools in concept and how they apply directly to project success. It also demonstrates the strategy and methods used to purchase and implement AI tools for project management. You will understand the difference between automating a task and changing it by using AI. Discover how AI uses data and the importance of data maintenance. Learn why projects fail and how using artificial intelligence for project management improves project success rates. The book features project management success stories and demonstrates how to leave behind that low project success rate for one that is 95 percent or higher. Supplemental teaching materials are available for use as a textbook. FEATURES: Covers a practical approach to using AI in project management Features a chapter on combining AI with other technologies such as IoT, Blockchain, and virtual reality for further insights into leading-edge changes for project management Demonstrates how to achieve higher productivity and incredible project performance by applying AI concepts Includes supplemental teaching materials for use as a textbook

ai book: *Risks of Artificial Intelligence* Vincent C. Müller, 2016-01-05 Featuring contributions from leading experts and thinkers in the theory of artificial intelligence (AI), this is one of the first books dedicated to examining the risks of AI. The book evaluates predictions of the future of AI, proposes ways to ensure that AI systems will be beneficial to humans, and then critically evaluates such proposals. The book covers the latest AI research, including the risks and future impacts. Ethical issues in AI are covered extensively along with an exploration of autonomous technology and its impact on humanity.

ai book: *Artificial Intelligence* Harvard Business Review, 2019 Companies that don't use AI to their advantage will soon be left behind. Artificial intelligence and machine learning will drive a massive reshaping of the economy and society. What should you and your company be doing right now to ensure that your business is poised for success? These articles by AI experts and consultants will help you understand today's essential thinking on what AI is capable of now, how to adopt it in your organization, and how the technology is likely to evolve in the near future. *Artificial Intelligence: The Insights You Need* from Harvard Business Review will help you spearhead important conversations, get going on the right AI initiatives for your company, and capitalize on the opportunity of the machine intelligence revolution. Catch up on current topics and deepen your understanding of them with the *Insights You Need* series from Harvard Business Review. Featuring some of HBR's best and most recent thinking, *Insights You Need* titles are both a primer on today's most pressing issues and an extension of the conversation, with interesting research, interviews, case studies, and practical ideas to help you explore how a particular issue will impact your company

and what it will mean for you and your business.

ai book: *Artificial Whiteness* Yarden Katz, 2020-11-17 Dramatic statements about the promise and peril of artificial intelligence for humanity abound, as an industry of experts claims that AI is poised to reshape nearly every sphere of life. Who profits from the idea that the age of AI has arrived? Why do ideas of AI's transformative potential keep reappearing in social and political discourse, and how are they linked to broader political agendas? Yarden Katz reveals the ideology embedded in the concept of artificial intelligence, contending that it both serves and mimics the logic of white supremacy. He demonstrates that understandings of AI, as a field and a technology, have shifted dramatically over time based on the needs of its funders and the professional class that formed around it. From its origins in the Cold War military-industrial complex through its present-day Silicon Valley proselytizers and eager policy analysts, AI has never been simply a technical project enabled by larger data and better computing. Drawing on intimate familiarity with the field and its practices, Katz instead asks us to see how AI reinforces models of knowledge that assume white male superiority and an imperialist worldview. Only by seeing the connection between artificial intelligence and whiteness can we prioritize alternatives to the conception of AI as an all-encompassing technological force. Bringing together theories of whiteness and race in the humanities and social sciences with a deep understanding of the history and practice of science and computing, *Artificial Whiteness* is an incisive, urgent critique of the uses of AI as a political tool to uphold social hierarchies.

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ai book: *The Age of AI* Henry A Kissinger, Eric Schmidt, Daniel Huttenlocher, 2021-11-16 THE WAY HUMANS NAVIGATE THE WORLD IS ALTERING, FOREVER. THIS IS YOUR ESSENTIAL AI ROADMAP. AI is revolutionizing how we approach security, economics, order and even knowledge itself. It is changing how we experience reality, and our role within it. Three of our most accomplished and deep thinkers explore what this means for our present and our future, tackling the questions that will affect us all: What will it mean to be human? What are the key frontier risks? What AI ethics are we going to need? How is AI impacting politics, defence, medicine and education? 'Absolutely masterful . . . the book we all need' Fareed Zakaria 'A muscular contribution to one of the 21st century's most pressing debates' The Economist Henry Kissinger was the 56th Secretary of State and winner of the Nobel Peace Prize; Eric Schmidt, Google's former CEO, led the company's growth for over a decade and Daniel Huttenlocher is dean of the MIT Schwarzman College of Computing.

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the book with up-to-date exercises, lecture slides and reading.

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