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What To Think About Machines That Think Today's Leading Thinkers On The Age Of Machine Intelligence

Heartificial Intelligence Smarter Than You Think Who's Afraid of AI? Willful Machines Machines Like Me The Big Nine Your Brain Is a Time Machine: The Neuroscience and Physics of Time What to Think About Machines That Think Thinking Machines Prediction Machines Consciousness and Moral Status Humility Is the New Smart Artificial Intelligence with Python Giant Brains The Promise of Artificial Intelligence Life 3.0 Machines that Think Robots on Your Doorstep (a Book about Thinking Machines) Understanding Machine Learning How Smart Machines Think The Singularity Is Near AI Narratives Machines That Think! How Humans Judge Machines A Human's Guide to Machine Intelligence The Quest for Artificial Intelligence Deep Thinking Machines that Think What To Do When Machines Do Everything Work Mate Marry Love The Sentient Machine Solomon's Code The Emotion Machine Human + Machine This Idea Must Die Social Machines The Age of Spiritual Machines Machines That Think Machines Who Think Moved by Machines

Heartificial Intelligence

Good, No Highlights, No Markup, all pages are intact, Slight Shelfwear, may have the corners slightly

dented, may have slight color changes/slightly damaged spine.

Smarter Than You Think

Given the rapid development of new technologies such as smart devices, robots, and artificial intelligence and their impact on the lives of people and on society, it is important and urgent to construct conceptual frameworks that help us to understand and evaluate them. Benefiting from tendencies towards a performative turn in the humanities and social sciences, drawing on thinking about the performing arts, and responding to gaps in contemporary artefact-oriented philosophy of technology, this book moves thinking about technology forward by using performance as a metaphor to understand and evaluate what we do with technology and what technology does with us. Focusing on the themes of knowledge/experience, agency, and power, and discussing some pertinent ethical issues such as deception, the narrative of the book moves through a number of performance practices: dance, theatre, music, stage magic, and (perhaps surprisingly) philosophy. These are used as sources for metaphors to think about technology—in particular contemporary devices and machines—and as interfaces to bring in various theories that are not usually employed in philosophy of technology. The result is a sequence of gestures and movements towards a performance-oriented conceptual framework for a thinking about technology which, liberated from the static, vision-centred, and dualistic

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metaphors offered by traditional philosophy, can do more justice to the phenomenology of our daily embodied, social, kinetic, temporal, and narrative performances with technology, our technoperformances. This book will appeal to scholars of philosophy of technology and performance studies who are interested in reconceptualizing the roles and impact of modern technology.

Who's Afraid of AI?

"Beautifully written, eloquently reasoned...Mr. Buonomano takes us off and running on an edifying scientific journey." —Carol Tavris, Wall Street Journal
In *Your Brain Is a Time Machine*, leading neuroscientist Dean Buonomano embarks on an "immensely engaging" exploration of how time works inside the brain (Barbara Kiser, *Nature*). The human brain, he argues, is a complex system that not only tells time, but creates it; it constructs our sense of chronological movement and enables "mental time travel"—simulations of future and past events. These functions are essential not only to our daily lives but to the evolution of the human race: without the ability to anticipate the future, mankind would never have crafted tools or invented agriculture. This virtuosic work of popular science will lead you to a revelation as strange as it is true: your brain is, at its core, a time machine.

Willful Machines

New from Ian McEwan, Booker Prize winner and

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international bestselling author of *Atonement* and *The Children Act* *Machines Like Me* takes place in an alternative 1980s London. Charlie, drifting through life and dodging full-time employment, is in love with Miranda, a bright student who lives with a terrible secret. When Charlie comes into money, he buys Adam, one of the first synthetic humans and—with Miranda's help—he designs Adam's personality. The near-perfect human that emerges is beautiful, strong, and clever. It isn't long before a love triangle soon forms, and these three beings confront a profound moral dilemma. In his subversive new novel, Ian McEwan asks whether a machine can understand the human heart—or whether we are the ones who lack understanding.

Machines Like Me

"Where should machine automation end? Is it acceptable to have a digital assistant arrange your calendar, but not to have a robot spouse? Are companion robots acceptable for seniors in need of comfort, but not okay for toddlers exposed to emotional software that could influence their behavior? Is it desirable to live a life within the virtual reality of Facebook's Oculus Rift, but not if your thoughts are sold to advertisers who manipulate your purchases? We've entered an era where a myriad of personalization algorithms influence our every decision, and the lines between human assistance, automation, and extinction have blurred. We need to create ethical standards for the Artificial Intelligence usurping our lives, and allow individuals to control

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their identity based on their values. Otherwise, we sacrifice our humanity for productivity versus purpose and for profits versus people. Featuring pragmatic solutions drawing on economics, emerging technologies, and positive psychology, *Heartificial Intelligence* provides the first values-driven approach to algorithmic living—a definitive roadmap to help humanity embrace the present and positively define their future. Each chapter opens with a fictional vignette, helping readers imagine how they would respond to various Artificial Intelligence scenarios while demonstrating the need to codify their values, as the algorithms dominating society today are already doing. Funny, poignant, and accessible, this book paints a vivid portrait of how our lives might look in either a dystopia of robotic and corporate dominance, or a utopia where humans use technology to enhance our natural abilities to evolve into a long-lived, super-intelligent, and altruistic species. Praise for *Heartificial Intelligence*—'In this thoughtful addition to the genre . . . Havens warns that we have ignored an essential feature of machine thinking—its ethics . . . An astute philosophical meditation on a major problem facing designers of advanced computers.'

Kirkus review 'Coexisting safely and ethically with intelligent machines is the central challenge of the twenty-first century. In the enjoyable *Heartificial Intelligence*, John Havens calls for resistance to the forces that erode our humanity in the age of the algorithm. Through detailed research, interviews, and engaging futuristic scenarios, Havens shows how establishing ethical standards for artificial intelligence will help us preserve the values we cherish most.'

James Barrat, author of *Our Final*

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Invention 'Heartificial Intelligence' is an excellent read! (Havens) explores a number of societal issues, which AI and robotics are likely to soon bring to prominence. A great guide to issues of identity, meaning, deception, and reality when our technology advances to the next level. 'aSteve Omohundro,aPresident of Possibility Research, SelfAwareSystems.coma 'With this exceptionally intelligent, playful, a

The Big Nine

Award-winning author Don Brown explores computers and technology in book two of the Big Ideas series *Machines That Think!* explores machines from ancient history to today that perform a multitude of tasks, from making mind-numbing calculations to working on assembly lines. Included are fascinating looks at the world's earliest calculators, the birth of computer programming, and the arrival of smartphones. Contributors discussed include Muhammad ibn Musa al-Khwarizmi, Ada Lovelace, and Bill Gates. From the abacus to artificial intelligence, machines through the ages have pushed the boundaries of human capability and creativity. Back matter includes a timeline, endnotes, a bibliography, an author's note, and an index.

Your Brain Is a Time Machine: The Neuroscience and Physics of Time

A scientist who has spent a career developing Artificial Intelligence takes a realistic look at the technological challenges and assesses the likely

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effect of AI on the future. How will Artificial Intelligence (AI) impact our lives? Toby Walsh, one of the leading AI researchers in the world, takes a critical look at the many ways in which "thinking machines" will change our world. Based on a deep understanding of the technology, Walsh describes where Artificial Intelligence is today, and where it will take us. • Will automation take away most of our jobs? • Is a "technological singularity" near? • What is the chance that robots will take over? • How do we best prepare for this future? The author concludes that, if we plan well, AI could be our greatest legacy, the last invention human beings will ever need to make.

What to Think About Machines That Think

A revelatory and timely look at how technology boosts our cognitive abilities—making us smarter, more productive, and more creative than ever. It's undeniable—technology is changing the way we think. But is it for the better? Amid a chorus of doomsayers, Clive Thompson delivers a resounding "yes." In *Smarter Than You Think*, Thompson shows that every technological innovation—from the written word to the printing press to the telegraph—has provoked the very same anxieties that plague us today. We panic that life will never be the same, that our attentions are eroding, that culture is being trivialized. But, as in the past, we adapt—learning to use the new and retaining what is good of the old. *Smarter Than You Think* embraces and extols this transformation, presenting an exciting vision of the present and the

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future. From the Trade Paperback edition.

Thinking Machines

A call-to-arms about the broken nature of artificial intelligence, and the powerful corporations that are turning the human-machine relationship on its head. We like to think that we are in control of the future of "artificial" intelligence. The reality, though, is that we--the everyday people whose data powers AI--aren't actually in control of anything. When, for example, we speak with Alexa, we contribute that data to a system we can't see and have no input into--one largely free from regulation or oversight. The big nine corporations--Amazon, Google, Facebook, Tencent, Baidu, Alibaba, Microsoft, IBM and Apple--are the new gods of AI and are short-changing our futures to reap immediate financial gain. In this book, Amy Webb reveals the pervasive, invisible ways in which the foundations of AI--the people working on the system, their motivations, the technology itself--is broken. Within our lifetimes, AI will, by design, begin to behave unpredictably, thinking and acting in ways which defy human logic. The big nine corporations may be inadvertently building and enabling vast arrays of intelligent systems that don't share our motivations, desires, or hopes for the future of humanity. Much more than a passionate, human-centered call-to-arms, this book delivers a strategy for changing course, and provides a path for liberating us from algorithmic decision-makers and powerful corporations.

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Prediction Machines

A penetrating guide to artificial intelligence: what it is, what it does, and how it will change our lives At a breathtaking pace, artificial intelligence is getting better and faster at making complex decisions. AI can already identify malignant tumors on CT scans, give legal advice, out-bluff the best poker players in the world, and, with ever-increasing skill, drive our cars. In *Who's Afraid of AI?*, award-winning author Thomas Ramey expertly explains how machines are learning to learn, and he questions what today's explosion of AI capability could mean for tomorrow: Is it ethical to allow robots—endlessly patient—to replace human caregivers in providing comfort and companionship to the elderly? Since AI feeds on big data, can we prevent its misuse by corporations or the government? Will AI ever be capable of runaway self-improvement? And if “the singularity” does arrive, with AI's intelligence exponentially outpacing our own, what will become of us when, in many ways, we're obsolete?

Consciousness and Moral Status

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

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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 GOFAI) 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.

Humility Is the New Smart

Artificial Intelligence with Python

Introduces machine learning and its algorithmic paradigms, explaining the principles behind

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automated learning approaches and the considerations underlying their usage.

Giant Brains

This book is a history of artificial intelligence, that audacious effort to duplicate in an artifact what we consider to be our most important property—our intelligence. It is an invitation for anybody with an interest in the future of the human race to participate in the inquiry.

The Promise of Artificial Intelligence

Build real-world Artificial Intelligence applications with Python to intelligently interact with the world around you About This Book Step into the amazing world of intelligent apps using this comprehensive guide Enter the world of Artificial Intelligence, explore it, and create your own applications Work through simple yet insightful examples that will get you up and running with Artificial Intelligence in no time Who This Book Is For This book is for Python developers who want to build real-world Artificial Intelligence applications. This book is friendly to Python beginners, but being familiar with Python would be useful to play around with the code. It will also be useful for experienced Python programmers who are looking to use Artificial Intelligence techniques in their existing technology stacks. What You Will Learn Realize different classification and regression techniques Understand the concept of clustering and how to use it to automatically segment data See how to build an

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intelligent recommender system Understand logic programming and how to use it Build automatic speech recognition systems Understand the basics of heuristic search and genetic programming Develop games using Artificial Intelligence Learn how reinforcement learning works Discover how to build intelligent applications centered on images, text, and time series data See how to use deep learning algorithms and build applications based on it In Detail Artificial Intelligence is becoming increasingly relevant in the modern world where everything is driven by technology and data. It is used extensively across many fields such as search engines, image recognition, robotics, finance, and so on. We will explore various real-world scenarios in this book and you'll learn about various algorithms that can be used to build Artificial Intelligence applications. During the course of this book, you will find out how to make informed decisions about what algorithms to use in a given context. Starting from the basics of Artificial Intelligence, you will learn how to develop various building blocks using different data mining techniques. You will see how to implement different algorithms to get the best possible results, and will understand how to apply them to real-world scenarios. If you want to add an intelligence layer to any application that's based on images, text, stock market, or some other form of data, this exciting book on Artificial Intelligence will definitely be your guide! Style and approach This highly practical book will show you how to implement Artificial Intelligence. The book provides multiple examples enabling you to create smart applications to meet the needs of your organization. In every chapter, we explain an

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algorithm, implement it, and then build a smart application.

Life 3.0

AI is radically transforming business. Are you ready? Look around you. Artificial intelligence is no longer just a futuristic notion. It's here right now--in software that senses what we need, supply chains that "think" in real time, and robots that respond to changes in their environment. Twenty-first-century pioneer companies are already using AI to innovate and grow fast. The bottom line is this: Businesses that understand how to harness AI can surge ahead. Those that neglect it will fall behind. Which side are you on? In *Human + Machine*, Accenture leaders Paul R. Daugherty and H. James (Jim) Wilson show that the essence of the AI paradigm shift is the transformation of all business processes within an organization--whether related to breakthrough innovation, everyday customer service, or personal productivity habits. As humans and smart machines collaborate ever more closely, work processes become more fluid and adaptive, enabling companies to change them on the fly--or to completely reimagine them. AI is changing all the rules of how companies operate. Based on the authors' experience and research with 1,500 organizations, the book reveals how companies are using the new rules of AI to leap ahead on innovation and profitability, as well as what you can do to achieve similar results. It describes six entirely new types of hybrid human + machine roles that every company must develop, and it includes a

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"leader's guide" with the five crucial principles required to become an AI-fueled business. Human + Machine provides the missing and much-needed management playbook for success in our new age of AI. BOOK PROCEEDS FOR THE AI GENERATION The authors' goal in publishing Human + Machine is to help executives, workers, students and others navigate the changes that AI is making to business and the economy. They believe AI will bring innovations that truly improve the way the world works and lives. However, AI will cause disruption, and many people will need education, training and support to prepare for the newly created jobs. To support this need, the authors are donating the royalties received from the sale of this book to fund education and retraining programs focused on developing fusion skills for the age of artificial intelligence.

Machines that Think

Sometime in the future the intelligence of machines will exceed that of human brain power. So are we on the edge of an AI-pocalypse, with superintelligent devices superseding humanity, as predicted by Stephen Hawking? Or will this herald a kind of Utopia, with machines doing a far better job at complex tasks than us? You might not realise it, but you interact with AIs every day. They route your phone calls, approve your credit card transactions and help your doctor interpret results. Driverless cars will soon be on the roads with a decision-making computer in charge. But how do machines actually think and learn? In

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Machines That Think, AI experts and New Scientist explore how artificial intelligence helps us understand human intelligence, machines that compose music and write stories - and ask if AI is really a threat. ABOUT THE SERIES New Scientist Instant Expert books are definitive and accessible entry points to the most important subjects in science; subjects that challenge, attract debate, invite controversy and engage the most enquiring minds. Designed for curious readers who want to know how things work and why, the Instant Expert series explores the topics that really matter and their impact on individuals, society, and the planet, translating the scientific complexities around us into language that's open to everyone, and putting new ideas and discoveries into perspective and context.

Robots on Your Doorstep (a Book about Thinking Machines)

Ray Kurzweil is the inventor of the most innovative and compelling technology of our era, an international authority on artificial intelligence, and one of our greatest living visionaries. Now he offers a framework for envisioning the twenty-first century--an age in which the marriage of human sensitivity and artificial intelligence fundamentally alters and improves the way we live. Kurzweil's prophetic blueprint for the future takes us through the advances that inexorably result in computers exceeding the memory capacity and computational ability of the human brain by the year 2020 (with human-level capabilities not far behind); in relationships with automated personalities

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who will be our teachers, companions, and lovers; and in information fed straight into our brains along direct neural pathways. Optimistic and challenging, thought-provoking and engaging, *The Age of Spiritual Machines* is the ultimate guide on our road into the next century. From the Trade Paperback edition.

Understanding Machine Learning

“Startling in scope and bravado.” —Janet Maslin, *The New York Times* “Artfully envisions a breathtakingly better world.” —*Los Angeles Times* “Elaborate, smart and persuasive.” —*The Boston Globe* “A pleasure to read.” —*The Wall Street Journal* One of CBS News’s Best Fall Books of 2005 • Among *St Louis Post-Dispatch*’s Best Nonfiction Books of 2005 • One of Amazon.com’s Best Science Books of 2005 A radical and optimistic view of the future course of human development from the bestselling author of *How to Create a Mind* and *The Age of Spiritual Machines* who Bill Gates calls “the best person I know at predicting the future of artificial intelligence” For over three decades, Ray Kurzweil has been one of the most respected and provocative advocates of the role of technology in our future. In his classic *The Age of Spiritual Machines*, he argued that computers would soon rival the full range of human intelligence at its best. Now he examines the next step in this inexorable evolutionary process: the union of human and machine, in which the knowledge and skills embedded in our brains will be combined with the vastly greater capacity, speed, and knowledge-sharing ability of our creations. From the Trade

How Smart Machines Think

Explores universal questions about humanity's capacity for living and thriving in the coming age of sentient machines and AI, examining debates from opposing perspectives while discussing emerging intellectual diversity and its potential role in enabling a positive life.

The Singularity Is Near

Weighing in from the cutting-edge frontiers of science, today's most forward-thinking minds explore the rise of "machines that think." Stephen Hawking recently made headlines by noting, "The development of full artificial intelligence could spell the end of the human race." Others, conversely, have trumpeted a new age of "superintelligence" in which smart devices will exponentially extend human capacities. No longer just a matter of science-fiction fantasy (2001, Blade Runner, The Terminator, Her, etc.), it is time to seriously consider the reality of intelligent technology, many forms of which are already being integrated into our daily lives. In that spirit, John Brockman, publisher of Edge.org ("the world's smartest website" - The Guardian), asked the world's most influential scientists, philosophers, and artists one of today's most consequential questions: What do you think about machines that think?

AI Narratives

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Artificial intelligence (AI) is a field within computer science that is attempting to build enhanced intelligence into computer systems. This book traces the history of the subject, from the early dreams of eighteenth-century (and earlier) pioneers to the more successful work of today's AI engineers. AI is becoming more and more a part of everyone's life. The technology is already embedded in face-recognizing cameras, speech-recognition software, Internet search engines, and health-care robots, among other applications. The book's many diagrams and easy-to-understand descriptions of AI programs will help the casual reader gain an understanding of how these and other AI systems actually work. Its thorough (but unobtrusive) end-of-chapter notes containing citations to important source materials will be of great use to AI scholars and researchers. This book promises to be the definitive history of a field that has captivated the imaginations of scientists, philosophers, and writers for centuries.

Machines That Think!

“Refreshingly thought-provoking” – The Financial Times
The essential playbook for the future of your business
What To Do When Machines Do Everything is a guidebook to succeeding in the next generation of the digital economy. When systems running on Artificial Intelligence can drive our cars, diagnose medical patients, and manage our finances more effectively than humans it raises profound questions on the future of work and how companies compete. Illustrated with real-world cases, data, and insight, the

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authors provide clear strategic guidance and actionable steps to help you and your organization move ahead in a world where exponentially developing new technologies are changing how value is created. Written by a team of business and technology expert practitioners—who also authored *Code Halos: How the Digital Lives of People, Things, and Organizations are Changing the Rules of Business*—this book provides a clear path to the future of your work. The first part of the book examines the once in a generation upheaval most every organization will soon face as systems of intelligence go mainstream. The authors argue that contrary to the doom and gloom that surrounds much of IT and business at the moment, we are in fact on the cusp of the biggest wave of opportunity creation since the Industrial Revolution. Next, the authors detail a clear-cut business model to help leaders take part in this coming boom; the AHEAD model outlines five strategic initiatives—Automate, Halos, Enhance, Abundance, and Discovery—that are central to competing in the next phase of global business by driving new levels of efficiency, customer intimacy and innovation. Business leaders today have two options: be swallowed up by the ongoing technological evolution, or ride the crest of the wave to new profits and better business. This book shows you how to avoid your own extinction event, and will help you; Understand the untold full extent of technology's impact on the way we work and live. Find out where we're headed, and how soon the future will arrive Leverage the new emerging paradigm into a sustainable business advantage Adopt a strategic model for winning in the new

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economy The digital world is already transforming how we work, live, and shop, how we are governed and entertained, and how we manage our money, health, security, and relationships. Don't let your business—or your career—get left behind. *What To Do When Machines Do Everything* is your strategic roadmap to a future full of possibility and success. Or peril.

How Humans Judge Machines

A crucial guide to life before—and after—Tinder, IVF, and robots. What will happen to our notions of marriage and parenthood as reproductive technologies increasingly allow for newfangled ways of creating babies? What will happen to our understanding of gender as medical advances enable individuals to transition from one set of sexual characteristics to another, or to remain happily perched in between? What will happen to love and sex and romance as our relationships migrate from the real world to the Internet? Can people fall in love with robots? Will they? In short, what will happen to our most basic notions of humanity as we entangle our lives and emotions with the machines we have created? In *Work Mate Marry Love*, Harvard Business School professor and former Barnard College president Debora L. Spar offers an incisive and provocative account of how technology has transformed our intimate lives in the past, and how it will do so again in the future. Surveying the course of history, she shows how marriage as we understand it resulted from the rise of agriculture, and that the

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nuclear family emerged with the industrial revolution. In their day, the street light, the car, and later the pill all upended courtship and sex. Now, as we enter an era of artificial intelligence and robots, how will our deepest feelings and attachments evolve? In the past, the prevailing modes of production produced a world dominated by heterosexual, mostly-monogamous, two-parent families. In the future, however, these patterns are almost certain to be reshaped, creating entirely new norms for sex and romance, and for the construction of families and the raising of children. Steering clear of both techno-euphoria and alarmism, Spar offers a bold and inclusive vision of how our lives might be changed for the better.

A Human's Guide to Machine Intelligence

In a near-future America, a sentient computer program named Charlotte has turned terrorist, but Lee Fisher, the closeted son of an ultraconservative President, is more concerned with keeping his Secret Service detail from finding out about his developing romance with Nico, the new guy at school, but when the spider-like robots that roam the school halls begin acting even stranger than usual, Lee realizes he is Charlotte's next target.

The Quest for Artificial Intelligence

The future is here: Self-driving cars are on the streets, an algorithm gives you movie and TV recommendations, IBM's Watson triumphed on Jeopardy over puny human brains, computer

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programs can be trained to play Atari games. But how do all these things work? In this book, Sean Gerrish offers an engaging and accessible overview of the breakthroughs in artificial intelligence and machine learning that have made today's machines so smart. Gerrish outlines some of the key ideas that enable intelligent machines to perceive and interact with the world. He describes the software architecture that allows self-driving cars to stay on the road and to navigate crowded urban environments; the million-dollar Netflix competition for a better recommendation engine (which had an unexpected ending); and how programmers trained computers to perform certain behaviors by offering them treats, as if they were training a dog. He explains how artificial neural networks enable computers to perceive the world—and to play Atari video games better than humans. He explains Watson's famous victory on Jeopardy, and he looks at how computers play games, describing AlphaGo and Deep Blue, which beat reigning world champions at the strategy games of Go and chess. Computers have not yet mastered everything, however; Gerrish outlines the difficulties in creating intelligent agents that can successfully play video games like StarCraft that have evaded solution—at least for now.

Deep Thinking

Humility Is the New Smart Your job is at risk—if not now, then soon. We are on the leading edge of a Smart Machine Age led by artificial intelligence that will be as transformative for us as the Industrial

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Revolution was for our ancestors. Smart machines will take over millions of jobs in manufacturing, office work, the service sector, the professions, you name it. Not only can they know more data and analyze it faster than any mere human, say Edward Hess and Katherine Ludwig, but smart machines are free of the emotional, psychological, and cultural baggage that so often mars human thinking. So we can't beat 'em and we can't join 'em. To stay relevant, we have to play a different game. Hess and Ludwig offer us that game plan. We need to excel at critical, creative, and innovative thinking and at genuinely engaging with others—things machines can't do well. The key is to change our definition of what it means to be smart. Hess and Ludwig call it being NewSmart. In this extraordinarily timely book, they offer detailed guidance for developing NewSmart attitudes and four critical behaviors that will help us adapt to the new reality. The crucial mindset underlying NewSmart is humility—not self-effacement but an accurate self-appraisal: acknowledging you can't have all the answers, remaining open to new ideas, and committing yourself to lifelong learning. Drawing on extensive multidisciplinary research, Hess and Ludwig emphasize that the key to success in this new era is not to be more like the machines but to excel at the best of what makes us human.

Machines that Think

A fascinating look at Artificial Intelligence, from its humble Cold War beginnings to the dazzling future that is just around the corner. When most of us think

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about Artificial Intelligence, our minds go straight to cyborgs, robots, and sci-fi thrillers where machines take over the world. But the truth is that Artificial Intelligence is already among us. It exists in our smartphones, fitness trackers, and refrigerators that tell us when the milk will expire. In some ways, the future people dreamed of at the World's Fair in the 1960s is already here. We're teaching our machines how to think like humans, and they're learning at an incredible rate. In *Thinking Machines*, technology journalist Luke Dormehl takes you through the history of AI and how it makes up the foundations of the machines that think for us today. Furthermore, Dormehl speculates on the incredible--and possibly terrifying--future that's much closer than many would imagine. This remarkable book will invite you to marvel at what now seems commonplace and to dream about a future in which the scope of humanity may need to broaden itself to include intelligent machines.

What To Do When Machines Do Everything

"What does AI mean for your business? Read this book to find out." -- Hal Varian, Chief Economist, Google Artificial intelligence does the seemingly impossible, magically bringing machines to life--driving cars, trading stocks, and teaching children. But facing the sea change that AI will bring can be paralyzing. How should companies set strategies, governments design policies, and people plan their lives for a world so different from what we

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know? In the face of such uncertainty, many analysts either cower in fear or predict an impossibly sunny future. But in *Prediction Machines*, three eminent economists recast the rise of AI as a drop in the cost of prediction. With this single, masterful stroke, they lift the curtain on the AI-is-magic hype and show how basic tools from economics provide clarity about the AI revolution and a basis for action by CEOs, managers, policy makers, investors, and entrepreneurs. When AI is framed as cheap prediction, its extraordinary potential becomes clear: Prediction is at the heart of making decisions under uncertainty. Our businesses and personal lives are riddled with such decisions. Prediction tools increase productivity--operating machines, handling documents, communicating with customers. Uncertainty constrains strategy. Better prediction creates opportunities for new business structures and strategies to compete. Penetrating, fun, and always insightful and practical, *Prediction Machines* follows its inescapable logic to explain how to navigate the changes on the horizon. The impact of AI will be profound, but the economic framework for understanding it is surprisingly simple.

Work Mate Marry Love

In May 1997, the world watched as Garry Kasparov, the greatest chess player in the world, was defeated for the first time by the IBM supercomputer Deep Blue. It was a watershed moment in the history of technology: machine intelligence had arrived at the point where it could best human intellect. It wasn't a

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coincidence that Kasparov became the symbol of man's fight against the machines. Chess has long been the fulcrum in development of machine intelligence; the hoax automaton 'The Turk' in the 18th century and Alan Turing's first chess program in 1952 were two early examples of the quest for machines to think like humans -- a talent we measured by their ability to beat their creators at chess. As the pre-eminent chessmaster of the 80s and 90s, it was Kasparov's blessing and his curse to play against each generation's strongest computer champions, contributing to their development and advancing the field. Like all passionate competitors, Kasparov has taken his defeat and learned from it. He has devoted much energy to devising ways in which humans can partner with machines in order to produce results better than either can achieve alone. During the twenty years since playing Deep Blue, he's played both with and against machines, learning a great deal about our vital relationship with our most remarkable creations. Ultimately, he's become convinced that by embracing the competition between human and machine intelligence, we can spend less time worrying about being replaced and more thinking of new challenges to conquer. In this breakthrough book, Kasparov tells his side of the story of Deep Blue for the first time -- what it was like to strategize against an implacable, untiring opponent -- the mistakes he made and the reasons the odds were against him. But more than that, he tells his story of AI more generally, and how he's evolved to embrace it, taking part in an urgent debate with philosophers worried about human values, programmers creating self-learning neural networks,

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and engineers of cutting edge robotics.

The Sentient Machine

"80 experimental scenarios help us understand how humans judge AIs as opposed to other humans in the same situation"--

Solomon's Code

Sometime in the future the intelligence of machines will exceed that of human brain power. So are we on the edge of an AI-pocalypse, with superintelligent devices superseding humanity, as predicted by Stephen Hawking? Or will this herald a kind of Utopia, with machines doing a far better job at complex tasks than us? You might not realise it, but you interact with AIs every day. They route your phone calls, approve your credit card transactions and help your doctor interpret results. Driverless cars will soon be on the roads with a decision-making computer in charge. But how do machines actually think and learn? In *Machines That Think*, AI experts and *New Scientist* explore how artificial intelligence helps us understand human intelligence, machines that compose music and write stories - and ask if AI is really a threat. ABOUT THE SERIES *New Scientist Instant Expert* books are definitive and accessible entry points to the most important subjects in science; subjects that challenge, attract debate, invite controversy and engage the most enquiring minds. Designed for curious readers who want to know how things work and why, the *Instant Expert* series explores the topics

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that really matter and their impact on individuals, society, and the planet, translating the scientific complexities around us into language that's open to everyone, and putting new ideas and discoveries into perspective and context.

The Emotion Machine

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

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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.

Human + Machine

Will your next doctor be a human being—or a machine? Will you have a choice? If you do, what should you know before making it? This book introduces the reader to the pitfalls and promises of artificial intelligence (AI) in its modern incarnation and the growing trend of systems to "reach off the Web" into the real world. The convergence of AI, social networking, and modern computing is creating an historic inflection point in the partnership between human beings and machines with potentially profound impacts on the future not only of computing but of our world and species. AI experts and researchers James Hendler—co-originator of the Semantic Web (Web 3.0)—and Alice Mulvehill—developer of AI-based operational systems for DARPA, the Air Force, and NASA—explore the social implications of AI systems in the context of a close examination of the technologies

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that make them possible. The authors critically evaluate the utopian claims and dystopian counterclaims of AI prognosticators. *Social Machines: The Coming Collision of Artificial Intelligence, Social Networking, and Humanity* is your richly illustrated field guide to the future of your machine-mediated relationships with other human beings and with increasingly intelligent machines. *What Readers Will Learn* What the concept of a social machine is and how the activities of non-programmers are contributing to machine intelligence How modern artificial intelligence technologies, such as Watson, are evolving and how they process knowledge from both carefully produced information (such as Wikipedia and journal articles) and from big data collections The fundamentals of neuromorphic computing, knowledge graph search, and linked data, as well as the basic technology concepts that underlie networking applications such as Facebook and Twitter How the change in attitudes towards cooperative work on the Web, especially in the younger demographic, is critical to the future of Web applications *Who This Book Is For* General readers and technically engaged developers, entrepreneurs, and technologists interested in the threats and promises of the accelerating convergence of artificial intelligence with social networks and mobile web technologies.

This Idea Must Die

A thought-provoking examination of artificial intelligence and how it reshapes human values, trust,

Download Ebook What To Think About Machines That Think Today's Leading Thinkers On The Age Of Machine Intelligence and power around the world.

Social Machines

This book is the first to examine the history of imaginative thinking about intelligent machines. As real Artificial Intelligence (AI) begins to touch on all aspects of our lives, this long narrative history shapes how the technology is developed, deployed and regulated. It is therefore a crucial social and ethical issue. Part I of this book provides a historical overview from ancient Greece to the start of modernity. These chapters explore the revealing pre-history of key concerns of contemporary AI discourse, from the nature of mind and creativity to issues of power and rights, from the tension between fascination and ambivalence to investigations into artificial voices and technophobia. Part II focuses on the twentieth and twenty-first-centuries in which a greater density of narratives emerge alongside rapid developments in AI technology. These chapters reveal not only how AI narratives have consistently been entangled with the emergence of real robotics and AI, but also how they offer a rich source of insight into how we might live with these revolutionary machines. Through their close textual engagements, these chapters explore the relationship between imaginative narratives and contemporary debates about AI's social, ethical and philosophical consequences, including questions of dehumanization, automation, anthropomorphisation, cybernetics, cyberpunk, immortality, slavery, and governance. The contributions, from leading humanities and social science scholars, show that

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narratives about AI offer a crucial epistemic site for exploring contemporary debates about these powerful new technologies.

The Age of Spiritual Machines

It seems obvious that phenomenally conscious experience is something of great value, and that this value maps onto a range of important ethical issues. For example, claims about the value of life for those in Permanent Vegetative State (PVS); debates about treatment and study of disorders of consciousness; controversies about end-of-life care for those with advanced dementia; and arguments about the moral status of embryos, fetuses, and non-human animals arguably turn on the moral significance of various facts about consciousness. However, though work has been done on the moral significance of elements of consciousness, such as pain and pleasure, little explicit attention has been devoted to the ethical significance of consciousness. In this book Joshua Shepherd presents a systematic account of the value present within conscious experience. This account emphasizes not only the nature of consciousness, but also the importance of items within experience such as affect, valence, and the complex overall shape of particular valuable experiences. Shepherd also relates this account to difficult cases involving non-humans and humans with disorders of consciousness, arguing that the value of consciousness influences and partially explains the degree of moral status a being possesses, without fully determining it. The upshot is a deeper understanding of both the moral importance

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of phenomenal consciousness and its relations to moral status. This book will be of great interest to philosophers and students of ethics, bioethics, philosophy of psychology, philosophy of mind, and cognitive science.

Machines That Think

In this mind-expanding book, scientific pioneer Marvin Minsky continues his groundbreaking research, offering a fascinating new model for how our minds work. He argues persuasively that emotions, intuitions, and feelings are not distinct things, but different ways of thinking. By examining these different forms of mind activity, Minsky says, we can explain why our thought sometimes takes the form of carefully reasoned analysis and at other times turns to emotion. He shows how our minds progress from simple, instinctive kinds of thought to more complex forms, such as consciousness or self-awareness. And he argues that because we tend to see our thinking as fragmented, we fail to appreciate what powerful thinkers we really are. Indeed, says Minsky, if thinking can be understood as the step-by-step process that it is, then we can build machines -- artificial intelligences -- that not only can assist with our thinking by thinking as we do but have the potential to be as conscious as we are. Eloquenty written, *The Emotion Machine* is an intriguing look into a future where more powerful artificial intelligences await.

Machines Who Think

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The bestselling editor of *This Explains Everything* brings together 175 of the world's most brilliant minds to tackle Edge.org's 2014 question: What scientific idea has become a relic blocking human progress? Each year, John Brockman, publisher of Edge.org—"The world's smartest website" (*The Guardian*)—challenges some of the world's greatest scientists, artists, and philosophers to answer a provocative question crucial to our time. In 2014 he asked 175 brilliant minds to ponder: What scientific idea needs to be put aside in order to make room for new ideas to advance? The answers are as surprising as they are illuminating. In *This Idea Must Die*: Steven Pinker dismantles the working theory of human behavior Richard Dawkins renounces essentialism Sherry Turkle reevaluates our expectations of artificial intelligence Geoffrey West challenges the concept of a "Theory of Everything" Andrei Linde suggests that our universe and its laws may not be as unique as we think Martin Rees explains why scientific understanding is a limitless goal Nina Jablonski argues to rid ourselves of the concept of race Alan Guth rethinks the origins of the universe Hans Ulrich Obrist warns against glorifying unlimited economic growth and much more. Profound, engaging, thoughtful, and groundbreaking, *This Idea Must Die* will change your perceptions and understanding of our world today . . . and tomorrow.

Moved by Machines

New York Times Best Seller How will Artificial Intelligence affect crime, war, justice, jobs, society and our very sense of being human? The rise of AI has

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the potential to transform our future more than any other technology—and there's nobody better qualified or situated to explore that future than Max Tegmark, an MIT professor who's helped mainstream research on how to keep AI beneficial. How can we grow our prosperity through automation without leaving people lacking income or purpose? What career advice should we give today's kids? How can we make future AI systems more robust, so that they do what we want without crashing, malfunctioning or getting hacked? Should we fear an arms race in lethal autonomous weapons? Will machines eventually outsmart us at all tasks, replacing humans on the job market and perhaps altogether? Will AI help life flourish like never before or give us more power than we can handle? What sort of future do you want? This book empowers you to join what may be the most important conversation of our time. It doesn't shy away from the full range of viewpoints or from the most controversial issues—from superintelligence to meaning, consciousness and the ultimate physical limits on life in the cosmos.

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