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Professor, University of Washington
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Pedro Domingos The Master
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ISBN. 978-0465065707. The Master
Algorithm: How the Quest for the
Ultimate Learning Machine Will
Remake Our World is a book by Pedro

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Domingos released in 2015. Domingos wrote the book in order to generate interest from people outside the field.

The Master Algorithm - Wikipedia
Pedro Domingos, one of the field's leading lights, lifts the veil for the first time to give us a peek inside the

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learning machines that power Google, Amazon, and your smartphone. He charts a course through machine learning's five major schools of thought, showing how they turn ideas from neuroscience, evolution, psychology, physics, and statistics into algorithms ready to serve you.

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Master Algorithm, The: Pedro Domingos, Mel Foster ...

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for the future universal learner—the Master Algorithm—and discusses what it will mean for business, science, and society.

The Master Algorithm: How the Quest for the Ultimate ...

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Pedro Domingos, author of *The Master Algorithm*, shines new light on the inner workings of deep learning models. Pedro Domingos in the Paul G. Allen Center for Computer Science & Engineering. In his latest work, Domingos lifts the lid on the black box of deep learning.

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The Master Algorithm is a reasonable overview of the growing field of machine learning. The author explores the idea of there being a master algorithm which could explain

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everything given enough data.

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provides a survey for layman of major methods used in machine learning.

The Master Algorithm: How the Quest for the Ultimate ...

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Machine Will Remake Our World, by
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increasingly run our lives. They find
books, movies, jobs, and dates for us,
manage our investments, and discover
new drugs.

The Master Algorithm by Pedro

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Pedro Domingos is a Professor Emeritus of computer science and engineering at the University of Washington. He is a researcher in machine learning known for Markov logic network enabling uncertain

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inference.

Pedro Domingos - Wikipedia

PEDRO DOMINGOS . Professor

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Master Algorithm, Google, Mountain View, 2015. The Quest for the Master Algorithm, TEDxUofW, Seattle, 2015.

Pedro Domingos

Machine learning is the automation of discovery, and it is responsible for making our smartphones work, helping

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Netflix suggest movies for us to watch, and ...

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power Google, Amazon, and your smartphone. He assembles a blueprint for the future universal learner--the Master Algorithm--and discusses what it will mean for business, science, and society.

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Pedro Domingos is one of the world's top machine learning researchers and a Professor in the Department of Computer Science and Engineering at the University of Washington.

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Quest for the Ultimate ...

Pedro Domingos is a professor of computer science at the University of Washington and the author of "The Master Algorithm". He is a winner of the SIGKDD Innovation Award, the highest honor in data...

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The Quest for the Master Algorithm |
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Professor Pedro Domingos talked about his book The Master Algorithm, in which he says technology is close to achieving the ultimate learning algorithm that is capable of discovering any knowledge...

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This universal learning algorithm is what Pedro Domingos refers to as The Master Algorithm. Pedro Domingos refers to the work that has been carried out by 5 different schools of thought or what he calls the "5 tribes

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of machine learning: Symbolists,
Connectionists, Evolutionaries,
Bayesians, and Analogizers.

The Master Algorithm □ The book Bill
Gates suggests you ...
Domingos, who joined the UW faculty
in 1999 and is the author of The

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Under the aegis of machine learning in our data-driven machine age, computers are programming themselves and learning aboutand solvingan extraordinary range of

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problems, from the mundane to the most daunting. Today it is machine learning programs that enable Amazon and Netflix to predict what users will like, Apple to power Siri's ability to understand voices, and Google to pilot cars. These programs are already helping us fight the war on cancer and

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predict the movements of the stock market, and they are making great headway with instant language translation and discovering new laws of nature. But machine learning is incomplete, and its practitioners across the globe are seeking the most powerful algorithm of all. The Master

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Algorithm will not be limited to solving particular problems but will be able to learn anything and solve any problem, however difficult, and Pedro Domingos, a trailblazing computer scientist, is at the very forefront of the search for it. With the Master Algorithm in hand and data as its fuel,

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machine learningessentially the automation of discovery, a kind of scientific method on steroidswill become the most powerful technology humanity has ever devised. And The Master Algorithm will be its bible.

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it will mean for business, science, and society. If data-ism is today's philosophy, this book is its bible.

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under the sun: a technology that builds itself. In *The Master Algorithm*, Pedro Domingos reveals how machine learning is remaking business, politics, science and war. And he takes us on an awe-inspiring quest to find 'The Master Algorithm' - a universal learner capable of deriving all knowledge from

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the ultimate learning algorithm: one capable of discovering any knowledge from data, and doing anything we want, before we even ask. In The Master Algorithm, Pedro Domingos lifts the veil to give us a peek inside the learning machines that power Google, Amazon, and your

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smartphone. He assembles a blueprint for the future universal learner--the Master Algorithm--and discusses what it will mean for business, science, and society. If data-ism is today's philosophy, this book is its bible.

Most subfields of computer science

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have an interface layer via which applications communicate with the infrastructure, and this is key to their success (e.g., the Internet in networking, the relational model in databases, etc.). So far this interface layer has been missing in AI. First-order logic and probabilistic graphical

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models each have some of the necessary features, but a viable interface layer requires combining both. Markov logic is a powerful new language that accomplishes this by attaching weights to first-order formulas and treating them as templates for features of Markov

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random fields. Most statistical models in wide use are special cases of Markov logic, and first-order logic is its infinite-weight limit. Inference algorithms for Markov logic combine ideas from satisfiability, Markov chain Monte Carlo, belief propagation, and resolution. Learning algorithms make

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use of conditional likelihood, convex optimization, and inductive logic programming. Markov logic has been successfully applied to problems in information extraction and integration, natural language processing, robot mapping, social networks, computational biology, and others, and

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is the basis of the open-source
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and audiobook summaries. How the Quest For the Ultimate Learning Machine Will Remake Our World. According to Pedro Domingos, one of the greatest mysteries of the universe is not how it begins or ends, or what infinitesimal threads it's woven from, it's what goes on in a small child's

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mind: how a pound of gray jelly can grow into a seat of consciousness. Even more astonishing is how little role parents play in teaching the brain to go through this transformation, as it largely does it all on its own. Today, scientists, computer engineers, and more are working towards a machine

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that can do exactly what the human brain does: learn. With all the technology of today, machines may one day even become smarter than the human brain. Computers can learn from large sets of data that we may not even realize is getting collected. This means that our future can be run

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by technology, changing the way we live and interact with each other. As you read, you'll learn how machines will one day be like the human brain, how there is no such thing as a perfect algorithm, and how a Master Algorithm is on its way to being created.

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Over the course of a generation, algorithms have gone from mathematical abstractions to powerful mediators of daily life. Algorithms have made our lives more efficient, more entertaining, and, sometimes, better informed. At the same time, complex algorithms are increasingly violating

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the basic rights of individual citizens. Allegedly anonymized datasets routinely leak our most sensitive personal information; statistical models for everything from mortgages to college admissions reflect racial and gender bias. Meanwhile, users manipulate algorithms to "game"

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search engines, spam filters, online reviewing services, and navigation apps. Understanding and improving the science behind the algorithms that run our lives is rapidly becoming one of the most pressing issues of this century. Traditional fixes, such as laws, regulations and watchdog

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groups, have proven woefully inadequate. Reporting from the cutting edge of scientific research, *The Ethical Algorithm* offers a new approach: a set of principled solutions based on the emerging and exciting science of socially aware algorithm design. Michael Kearns and Aaron Roth

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explain how we can better embed human principles into machine code - without halting the advance of data-driven scientific exploration. Weaving together innovative research with stories of citizens, scientists, and activists on the front lines, The Ethical Algorithm offers a compelling vision for

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world scenarios and teaches you how to apply relevant AI algorithms to a wide swath of problems, starting with the most basic AI concepts and progressively building from there to solve more difficult challenges so that by the end, you will have gained a solid understanding of, and when best

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to use, these many artificial intelligence techniques. What you will learn Understand what artificial intelligence, machine learning, and data science are Explore the most common artificial intelligence use cases Learn how to build a machine learning pipeline Assimilate the basics

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of feature selection and feature engineering Identify the differences between supervised and unsupervised learning Discover the most recent advances and tools offered for AI development in the cloud Develop automatic speech recognition systems and chatbots Apply AI algorithms to

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time series data Who this book is for
The intended audience for this book is
Python developers who want to build
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applications. Basic Python
programming experience and
awareness of machine learning
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mandatory.

Everything you've always wanted to know about self-driving cars, Netflix recommendations, IBM's Watson, and video game-playing computer programs. The future is here: Self-driving cars are on the streets, an

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algorithm gives you movie and TV recommendations, IBM's Watson triumphed on Jeopardy over puny human brains, computer 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

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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

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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

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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

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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.

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Gerrish weaves the stories behind these breakthroughs into the narrative, introducing readers to many of the researchers involved, and keeping technical details to a minimum.

Science and technology buffs will find this book an essential guide to a future in which machines can outsmart

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If you're an executive, manager, or anyone interested in leveraging AI within your organization, this is your guide. You'll understand exactly what AI is, learn how to identify AI opportunities, and develop and

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execute a successful AI vision and strategy. Alex Castrounis, business consultant and former IndyCar engineer and race strategist, examines the value of AI and shows you how to develop an AI vision and strategy that benefits both people and business. AI is exciting, powerful, and game

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