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By Josh Sullivan,  
Angela Zutavern.

PublicAffairs,  
*Page 16/93*



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In essence,

Mathematical

Corporation calls for  
new leadership traits in  
the world of AI. The

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book postulates a world where Leaders will develop new thinking skills for working with machines. Leaders will address Big, unknown questions by querying the universe of data.

They will aspire to work towards breakthrough or impossible strategies

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*Page 18/93*

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king, Sullivan and  
Zutavern (senior v-p...

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Thinking Machines

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Corporation breaks new  
and important ground by  
restoring the importance  
of people, especially  
those in leadership  
roles, in harnessing the

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synergistic combination  
of fast computing,  
algorithms, and big data  
to attain organizational  
and competitive  
advantage.

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How companies in  
industries such as  
pharmaceuticals are  
starting to learn that by  
giving more data away,  
they actually get more  
back.

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Impossible, □ by Josh  
Sullivan and Angela  
Zutavern. Sullivan and  
Zutavern are,

respectively, senior vice  
president and vice  
president of Booz Allen  
Hamilton.

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Book Review: The  
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Corporation by Josh  
Sullivan ...

The practice, called  
hyperdynamic pricing,  
is poised for significant  
growth, said Angela  
Zutavern, a managing  
director at the  
technology consulting  
firm AlixPartners and  
the author of "The...



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In the Race for Cheap  
Airfare, It's You vs. the  
Machine ...

If you ever wondered  
where business's

obsession with  
technology is taking us,

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Achieve the Impossible

might give you a clue.

The book focuses on a

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particular type of  
organization, the  
[mathematical  
corporation], as an  
example of the kind of  
businesses that you  
could see in the very  
near future.

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artificial intelligence  
experts Joshua Sullivan  
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business leaders how to  
compete in this new era:  
by combining the  
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machines with the  
intellect of visionary  
leaders.

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Top Takeaways from  
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The most powerful  
weapon in business  
today is the alliance  
between the  
mathematical smarts of  
machines and the  
imaginative human  
intellect of great leaders.  
Together they make the



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business model of the  
future. We are at a once-  
in-a-decade breaking  
point similar to the  
quality revolution of the  
1980s and the dawn of  
the internet age in the  
1990s: leaders must  
transform how they run  
their organizations, or  
competitors will bring  
them ...

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The Mathematical  
Corporation: Where  
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The Mathematical  
Corporation provides  
myriad examples of how  
data of all kinds gives us  
insight to our deep  
questions. In reading  
this, I was reminded of  
"The Machine" from  
Person of Interest, but  
the real Machine hasn't

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been built by one Mr.  
Finch.

Amazon.com: Customer  
reviews: The  
Mathematical  
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The 1964/1965 New  
York World's Fair was a

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world's fair that held  
over 140 pavilions, 110  
restaurants, for 80  
nations (hosted by 37),  
24 US states, and over  
45 corporations to build  
exhibits or attractions at  
Flushing

Meadows—Corona Park  
in Queens, New York  
City. The immense fair  
covered 646 acres (2.61  
km<sup>2</sup>) on half the park,  
with numerous pools or

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fountains, and an  
amusement park with  
rides ...  
Intelligence And  
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The most powerful  
weapon in business  
today is the alliance  
between the  
mathematical smarts of  
machines and the  
imaginative human  
intellect of great leaders.

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Together they make the mathematical corporation, the business model of the future. We are at a once-in-a-decade breaking point similar to the quality revolution of the 1980s and the dawn of the internet age in the 1990s: leaders must transform how they run their organizations, or competitors will bring



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Corporation  
them crashing to  
earth--often overnight.  
Mathematical  
Intelligence And  
corporations--the  
Human  
organizations that will  
Ingenuity  
master the future--will  
Achieve The  
Impossible  
outcompete high-flying  
rivals by merging the  
best of human ingenuity  
with machine  
intelligence. While  
smart machines are  
weapon number one for  
organizations, leaders

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are still the drivers of breakthroughs. Only they can ask crucial questions to capitalize on business

opportunities newly discovered in oceans of data. This dynamic combination will make possible the fulfillment of missions that once seemed out of reach, even impossible to attain. Josh Sullivan and

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Angela Zutavern's extraordinary examples include the entrepreneur who upended preventive health care, the oceanographer who transformed fisheries management, and the pharmaceutical company that used algorithm-driven optimization to boost vaccine yields. Together they offer a profoundly

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optimistic vision for a  
dazzling new phase in  
business, and a  
playbook for how smart  
companies can manage  
the essential  
combination of human  
and machine.

## Impossible

Accessible text features  
over 100 reality-based  
examples pulled from  
the science, engineering,  
and operations research

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fields. Prerequisites:  
ordinary differential  
equations, continuous  
probability. Numerous  
references. Includes 27  
black-and-white figures.  
1978 edition.

A Wharton professor  
and tech entrepreneur  
examines how  
algorithms and artificial  
intelligence are starting  
to run every aspect of

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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,

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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-

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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



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algorithms often think a lot like their creators--that is, like you and me. Hosanagar draws on his experiences designing algorithms professionally--as well as on history, computer science, and psychology--to explore how algorithms work and why they occasionally go rogue,

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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

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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

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The fundamental  
mathematical tools  
needed to understand  
machine learning  
include linear algebra,  
analytic geometry,  
matrix decompositions,  
vector calculus,  
optimization,  
probability and  
statistics. These topics  
are traditionally taught

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in disparate courses,  
making it hard for data  
science or computer  
science students, or  
professionals, to  
efficiently learn the  
mathematics. This self-  
contained textbook  
bridges the gap between  
mathematical and  
machine learning texts,  
introducing the  
mathematical concepts  
with a minimum of

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prerequisites. It uses these concepts to derive four central machine learning methods: linear regression, principal component analysis, Gaussian mixture models and support vector machines. For students and others with a mathematical background, these derivations provide a starting point to

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For those learning the  
mathematics for the first  
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build intuition and

practical experience

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Every chapter includes

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exercises to test

understanding.

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Intelligence And  
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Humanity  
Are you ready? Look  
around you. Artificial  
Intelligence  
intelligence is no longer  
Achieve The  
just a futuristic notion.

Impossible  
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



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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

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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

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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

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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 "leader's

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guide" with the five  
crucial principles  
required to become an  
AI-fueled business.

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AI GENERATION The  
authors' goal in  
publishing Human +

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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

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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.

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Longlisted for the  
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Bestseller A former  
Wall Street quant  
sounds an alarm on the  
mathematical models  
that pervade modern life  
-- and threaten to rip  
apart our social fabric  
We live in the age of the  
algorithm. Increasingly,  
the decisions that affect



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our lives--where we go to school, whether we get a car loan, how much we pay for health insurance--are being made not by humans, but by mathematical models. In theory, this should lead to greater fairness: Everyone is judged according to the same rules, and bias is eliminated. But as Cathy O'Neil reveals in this

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urgent and necessary book, the opposite is true. The models being used today are opaque, unregulated, and uncontestable, even when they're wrong. Most troubling, they reinforce discrimination: If a poor student can't get a loan because a lending model deems him too risky (by virtue of his zip code), he's

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then cut off from the kind of education that could pull him out of poverty, and a vicious spiral ensues. Models are propping up the lucky and punishing the downtrodden, creating a "toxic cocktail for democracy." Welcome to the dark side of Big Data. Tracing the arc of a person's life, O'Neil exposes the black box

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models that shape our future, both as individuals and as a society. These "weapons of math destruction" score teachers and students, sort r sum s, grant (or deny) loans, evaluate workers, target voters, set parole, and monitor our health.

O'Neil calls on modelers to take more responsibility for their

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algorithms and on  
policy makers to  
regulate their use. But in  
the end, it's up to us to  
become more savvy  
about the models that  
govern our lives. This  
important book  
empowers us to ask the  
tough questions,  
uncover the truth, and  
demand change. --

Longlist for National  
Book Award (Non-

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(Fiction) -- Goodreads,  
semi-finalist for the  
2016 Goodreads Choice  
Awards (Science and  
Technology) -- Kirkus,  
Best Books of 2016 --  
New York Times, 100  
Notable Books of 2016  
(Non-Fiction) -- The  
Guardian, Best Books of  
2016 -- WBUR's "On  
Point," Best Books of  
2016: Staff Picks --  
Boston Globe, Best

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Books of 2016, Non-  
Fiction

Examine the problem of maintaining the quality of big data and discover novel solutions. You will learn the four V's of big data, including veracity, and study the problem from various angles. The solutions discussed are drawn from diverse areas of

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engineering and math,  
including machine  
learning, statistics,  
formal methods, and the  
Blockchain technology.

Veracity of Big Data  
serves as an introduction  
to machine learning  
algorithms and diverse  
techniques such as the  
Kalman filter, SPRT,  
CUSUM, fuzzy logic,  
and Blockchain,  
showing how they can



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be used to solve  
problems in the veracity  
domain. Using  
examples, the math  
behind the techniques is  
explained in easy-to-  
understand language.

Determining the truth of  
big data in real-world  
applications involves  
using various tools to  
analyze the available  
information. This book  
delves into some of the

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techniques that can be used. Microblogging websites such as Twitter have played a major role in public life, including during presidential elections. The book uses examples of microblogs posted on a particular topic to demonstrate how veracity can be examined and established. Some of the techniques are described

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in the context of  
detecting veiled attacks  
on microblogging  
websites to influence  
public opinion. What  
You'll Learn Understand  
the problem concerning  
data veracity and its  
ramifications Develop  
the mathematical  
foundation needed to  
help minimize the  
impact of the problem  
using easy-to-

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understand language

and examples Use

diverse tools and

techniques such as

machine learning

algorithms, Blockchain,

and the Kalman filter to

address veracity issues

Who This Book Is For

Software developers and

practitioners, practicing

engineers, curious

managers, graduate

students, and research

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A comprehensive guide  
to getting well-versed  
with the mathematical  
techniques for building  
modern deep learning  
architectures Key

Features Understand  
linear algebra, calculus,  
gradient algorithms, and  
other concepts essential  
for training deep neural  
networks Learn the

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mathematical concepts  
needed to understand  
how deep learning  
models function Use  
deep learning for  
solving problems related  
to vision, image, text,  
and sequence

applications Book

Description Most  
programmers and data  
scientists struggle with  
mathematics, having  
either overlooked or

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forgotten core  
mathematical concepts.  
This book uses Python  
libraries to help you  
understand the math  
required to build deep  
learning (DL) models.  
You'll begin by learning  
about core mathematical  
and modern  
computational  
techniques used to  
design and implement  
DL algorithms. This

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book will cover essential topics, such as linear algebra, eigenvalues and eigenvectors, the singular value decomposition concept, and gradient algorithms, to help you understand how to train deep neural networks. Later chapters focus on important neural networks, such as the linear neural



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network and multilayer perceptrons, with a primary focus on helping you learn how each model works. As you advance, you will delve into the math used for regularization, multi-layered DL, forward propagation, optimization, and backpropagation techniques to understand what it takes

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to build full-fledged DL models. Finally, you'll explore CNN, recurrent neural network (RNN), and GAN models and their application. By the end of this book, you'll have built a strong foundation in neural networks and DL mathematical concepts, which will help you to confidently research and build custom models in

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DL. What you will learn

Understand the key  
mathematical concepts  
for building neural

network models

Discover core  
multivariable calculus  
concepts Improve the

performance of deep  
learning models using  
optimization techniques

Cover optimization  
algorithms, from basic  
stochastic gradient

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descent (SGD) to the advanced Adam optimizer Understand computational graphs and their importance in DL Explore the backpropagation algorithm to reduce output error Cover DL algorithms such as convolutional neural networks (CNNs), sequence models, and generative adversarial

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networks (GANs) Who

this book is for This

book is for data

scientists, machine

learning developers,

aspiring deep learning

developers, or anyone

who wants to

understand the

foundation of deep

learning by learning the

math behind it. Working

knowledge of the

Python programming

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language and machine learning basics is required.

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

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streets, an 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 the road and to



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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

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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

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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. Gerrish weaves the stories behind these breakthroughs into the

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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 people.

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