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Math Destruction Written by Kathy O'Neil Weapons Of Math
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Indispensable Despite the technical complexity of its subject,
Weapons of Math Destruction lucidly guides readers through
these complex modelling systems O Neil s book is an

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Weapons of Math Destruction is an excellent primer on the ethical and moral risks of Big Data and an algorithmically dependent world For those curious about how Big Data can help them and their businesses, or how it has been reshaping the world around them, Weapons of Math Destruction is an essential starting place.

Weapons of Math Destruction: How Big Data Increases ...
Weapons of Math Destruction is a 2016 American book about the societal impact of algorithms, written by Cathy O'Neil. It explores how some big data algorithms are increasingly used in ways that reinforce preexisting inequality. It was longlisted for the 2016 National Book Award for Nonfiction, has been widely reviewed, and won the Euler Book Prize.

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Weapons of Math Destruction - Wikipedia

Weapons of Math Destruction opens the curtain on algorithms that exploit people and distort the truth while posing as neutral mathematical tools. This book is wise, fierce, and desperately necessary -- Jordan Ellenberg, author of How Not To Be Wrong Weapons of Math Destruction is a fantastic, plainspoken call to arms. Cathy O'Neil's book is important precisely because she believes in data science.

Weapons of Math Destruction: How Big Data Increases ...

These "weapons of math destruction" score teachers and students, sort résumés, 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

Get Free Weapons Of Math Destruction How Big Data Increases Inequality And Algorithms and on policy makers to regulate their use.

Weapons of Math Destruction

Title: Weapons of math destruction: how big data increases inequality and threatens democracy / Cathy O'Neil

Description: First edition. | New York: Crown Publishers

[2016] Identifiers: LCCN 2016003900 (print) | LCCN 2016016487 (ebook) | ISBN 9780553418811 (hardcover) | ISBN 9780553418835 (pbk.) | ISBN 9780553418828 (ebook)

Weapons of Math Destruction: How Big Data Increases ...
In Cathy O'Neil 's thought-provoking book on data and algorithms, she argues that there are three main elements of a WMD or weapons of math destruction. The three elements

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Weapons of Math Destruction - eNotes.com

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Subscribe Now One example is the U.S. News and World Report ranking of universities and colleges. There is no single clear way to measure a value ...

Weapons of Math Destruction Chapters 3-5 Summary -
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Weapons of math destruction, which O'Neil refers to throughout the book as WMDs, are mathematical models or algorithms that claim to quantify important traits: teacher quality, recidivism risk,...

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Review: Weapons of Math Destruction - Scientific American

...

Weapons of Math Destruction provides a handy map to a few of the many areas of our lives over which invisible algorithms have gained some control. As the empire of big data continues to expand, Cathy O'Neil's reminder of the need for vigilance is welcome and necessary.

Weapons of Math Destruction: How Big Data Increases ...

Weapons of Math Destruction . Catherine ("Cathy") Helen O'Neil is an American mathematician and the author of the blog mathbabe.org and several books on data science, including Weapons of Math Destruction.

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Weapons of Math Destruction (OO)

Weapons of Math Destruction takes readers on a journey through life, exploring some of the mathematical models that manipulate our lives from behind the scenes. These models are invisible to us and the government representatives whose help we need to regulate them.

Weapons of Math Destruction - the math behind the curtain ...
There she saw the use of weapons of math destruction, a term ONeil uses to describe algorithms that are important, secret and destructive. The algorithms that ultimately caused the financial...

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Weapons of Math Destruction: Cathy O'Neil adds up the ...
weapons of math destruction We live in the age of the algorithm. Increasingly, the decisions that affect 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.

WEAPONS OF MATH DESTRUCTION [PDF] - Programmer Books

Cathy O'Neil is a data scientist and author of the blog mathbabe.org. She earned a Ph.D. in mathematics from Harvard and taught at Barnard College before mov...

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Data scientist Cathy O'Neil shows in her revealing book, Weapons of Math Destruction: How Big Data Increases Inequality, that math and mathematical algorithm...

Weapons of Math Destruction - YouTube

I came up with a name for these harmful models: Weapons of Math Destruction, or WMDs for short. And the human victims of WMDs, we'll see time and again, are held to a far higher standard of evidence than the algorithms themselves.

Welcome to the dark side of Big Data. A Fair Model Local bankers used to stand tall in a town. They controlled ...

Weapons of Math Destruction | Discover Magazine

We discuss her book "Weapons of Math Destruction: How Big

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Threatens Democracy," and the ways in which algorithms dictate nearly every aspect of our lives, including our interactions with the criminal justice system and our elections. We also discuss how Facebook and Cambridge Analytica use our personal data in ways that may influence our voting decisions.

"Weapons of Math Destruction" - Electorette Podcast
Weapons of Math Destruction Part 4. Posted on November 13, 2017 by Jason Green. These chapters (actually they were last week's) cover employment . Here's Bryan's prompt. On the hiring side, I'm not sure whether algorithmic arbitrariness or human arbitrariness is worse.

Get Free Weapons Of Math Destruction How Big Data Increases Inequality And Threatens Democracy

Longlisted for the National Book Award New York Times 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 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 urgent and necessary book, the opposite is true. The models being used today are opaque, unregulated,

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and uncontested, 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 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 models that shape our future, both as individuals and as a society. These "weapons of math destruction" score teachers and students, sort resumes, 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 algorithms and

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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-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 Books of 2016, Non-Fiction

NEW YORK TIMES BESTSELLER □ A former Wall Street quant sounds the alarm on Big Data and the mathematical

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models that threaten to rip apart our social fabric—with a new
afterword —A manual for the twenty-first-century citizen . . .
relevant and urgent.—Financial Times NATIONAL BOOK
AWARD LONGLIST — NAMED ONE OF THE BEST BOOKS
OF THE YEAR BY The New York Times Book Review — The
Boston Globe — Wired — Fortune — Kirkus Reviews — The
Guardian — Nature — On Point We live in the age of the
algorithm. Increasingly, the decisions that affect our
lives—where we go to school, whether we can get a job or a
loan, how much we pay for health insurance—are being made
not by humans, but by machines. In theory, this should lead
to greater fairness: Everyone is judged according to the same
rules. But as mathematician and data scientist Cathy O’Neil
reveals, the mathematical models being used today are

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Unregulated and uncontested, even when they're wrong. Most troubling, they reinforce discrimination—propping up the lucky, punishing the downtrodden, and undermining our democracy in the process. Welcome to the dark side of Big Data.

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 our lives - where we go to school, whether we get a loan, how much we pay for 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

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Bias is eliminated. And yet, as Cathy O'Neil reveals in this urgent and necessary book, the opposite is true. The models being used today are opaque, unregulated, and incontestable, even when they're wrong. Most troubling, they reinforce discrimination. Tracing the arc of a person's life, O'Neil exposes the black box models that shape our future, both as individuals and as a society. These "weapons of math destruction" score teachers and students, sort CVs, grant or deny loans, evaluate workers, target voters, and monitor our health. O'Neil calls on modellers to take more responsibility for their 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

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Now that people are aware that data can make the difference in an election or a business model, data science as an occupation is gaining ground. But how can you get started working in a wide-ranging, interdisciplinary field that's so clouded in hype? This insightful book, based on Columbia University's Introduction to Data Science class, tells you what you need to know. In many of these chapter-long lectures, data scientists from companies such as Google, Microsoft, and eBay share new algorithms, methods, and models by presenting case studies and the code they use. If you're

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Familiar with linear algebra, probability, and statistics, and have programming experience, this book is an ideal introduction to data science. Topics include: Statistical inference, exploratory data analysis, and the data science process Algorithms Spam filters, Naive Bayes, and data wrangling Logistic regression Financial modeling Recommendation engines and causality Data visualization Social networks and data journalism Data engineering, MapReduce, Pregel, and Hadoop Doing Data Science is collaboration between course instructor Rachel Schutt, Senior VP of Data Science at News Corp, and data science consultant Cathy O'Neil, a senior data scientist at Johnson Research Labs, who attended and blogged about the course.

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With moral clarity and powerful storytelling, Cathy O'Neil reverse engineers the 'shame machine,' revealing its inner workings and inciting nothing short of a cultural reckoning that has the potential to blow this machine to bits' - Ruha Benjamin Shame is being weaponized by governments and corporations to attack the most vulnerable. It's time to fight back Shame is a powerful and sometimes useful tool. When we publicly shame corrupt politicians, abusive celebrities, or predatory corporations, we reinforce values of fairness and justice. But as best-selling author Cathy O'Neil argues in this revelatory book, shaming has taken a new and dangerous turn. It is increasingly being weaponized -- used as a way to shift responsibility for social problems from institutions to individuals. Shaming children for not being able to afford

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school lunches or adults for not being able to find work lets us off the hook as a society. After all, why pay higher taxes to fund programmes for people who are fundamentally unworthy? O'Neil explores the machinery behind all this shame, showing how governments, corporations and the healthcare system capitalize on it. There are damning stories of rehab clinics, reentry programs, drug and diet companies, and social media platforms -- all of which profit from 'punching down' on the vulnerable. Woven throughout *The Shame Machine* is the story of O'Neil's own struggle with body image and her recent weight-loss surgery, which awakened her to the systematic shaming of fat people seeking medical care. With clarity and nuance, O'Neil dissects the relationship between shame and power. Whom does the system serve?

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How do current incentive structures perpetuate the shaming cycle? And, most important, how can we all fight back?

"An intelligent book that struggles honestly with important questions: Is the net turning us into passive knowers? Is it degrading our ability to reason? What can we do about this?"

—David Weinberger, Los Angeles Review of Books We used to say "seeing is believing"; now, googling is believing. With 24/7 access to nearly all of the world's information at our fingertips, we no longer trek to the library or the encyclopedia shelf in search of answers. We just open our browsers, type in a few keywords and wait for the information to come to us. Now firmly established as a pioneering work of modern philosophy, *The Internet of Us* has helped revolutionize our

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Understanding of what it means to be human in the digital age. Indeed, demonstrating that knowledge based on reason plays an essential role in society and that there is more to "knowing" than just acquiring information, leading philosopher Michael P. Lynch shows how our digital way of life makes us value some ways of processing information over others, and thus risks distorting the greatest traits of mankind. Charting a path from Plato's cave to Google Glass, the result is a necessary guide on how to navigate the philosophical quagmire that is the "Internet of Things."

A new way of thinking about data science and data ethics that is informed by the ideas of intersectional feminism. Today, data science is a form of power. It has been used to expose

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Injustice, improve health outcomes, and topple governments. But it has also been used to discriminate, police, and surveil. This potential for good, on the one hand, and harm, on the other, makes it essential to ask: Data science by whom? Data science for whom? Data science with whose interests in mind? The narratives around big data and data science are overwhelmingly white, male, and techno-heroic. In *Data Feminism*, Catherine D'Ignazio and Lauren Klein present a new way of thinking about data science and data ethics—one that is informed by intersectional feminist thought. Illustrating data feminism in action, D'Ignazio and Klein show how challenges to the male/female binary can help challenge other hierarchical (and empirically wrong) classification systems. They explain how, for example, an understanding of

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emotion can expand our ideas about effective data visualization, and how the concept of invisible labor can expose the significant human efforts required by our automated systems. And they show why the data never, ever "speak for themselves." Data Feminism offers strategies for data scientists seeking to learn how feminism can help them work toward justice, and for feminists who want to focus their efforts on the growing field of data science. But Data Feminism is about much more than gender. It is about power, about who has it and who doesn't, and about how those differentials of power can be challenged and changed.

An instant New York Times Bestseller! "Unreasonably entertaining . . . reveals how geometric thinking can allow for

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Everything from fairer American elections to better pandemic planning. □ □The New York Times From the New York Times bestselling author of How Not to Be Wrong □himself a world-class geometer □a far-ranging exploration of the power of geometry, which turns out to help us think better about practically everything. How should a democracy choose its representatives? How can you stop a pandemic from sweeping the world? How do computers learn to play Go, and why is learning Go so much easier for them than learning to read a sentence? Can ancient Greek proportions predict the stock market? (Sorry, no.) What should your kids learn in school if they really want to learn to think? All these are questions about geometry. For real. If you're like most people, geometry is a sterile and dimly remembered exercise you

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They're behind in the dust of ninth grade, along with your braces and active romantic interest in pop singers. If you recall any of it, it's plodding through a series of miniscule steps only to prove some fact about triangles that was obvious to you in the first place. That's not geometry. Okay, it is geometry, but only a tiny part, which has as much to do with geometry in all its flush modern richness as conjugating a verb has to do with a great novel. Shape reveals the geometry underneath some of the most important scientific, political, and philosophical problems we face. Geometry asks: Where are things? Which things are near each other? How can you get from one thing to another thing? Those are important questions. The word "geometry" comes from the Greek for "measuring the world." If anything, that's an

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undersell. Geometry doesn't just measure the world—it explains it. Shape shows us how.

This interdisciplinary and international handbook captures and shapes much needed reflection on normative frameworks for the production, application, and use of artificial intelligence in all spheres of individual, commercial, social, and public life.

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