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Big Data as a Lens
on Human Culture

Erez Aiden &
Jean-Baptiste Michel

Uncharted Big Data As A Lens On Human Culture

Colin Strong



Uncharted Big Data As A Lens On Human Culture:

Uncharted Erez Aiden, Jean-Baptiste Michel, 2013-12-26 One of the most exciting developments from the world of ideas in decades presented with panache by two frighteningly brilliant endearingly unpretentious and endlessly creative young scientists Steven Pinker author of *The Better Angels of Our Nature* Our society has gone from writing snippets of information by hand to generating a vast flood of 1s and 0s that record almost every aspect of our lives who we know what we do where we go what we buy and who we love This year the world will generate 5 zettabytes of data That's a five with twenty one zeros after it Big data is revolutionizing the sciences transforming the humanities and renegotiating the boundary between industry and the ivory tower What is emerging is a new way of understanding our world our past and possibly our future In *Uncharted* Erez Aiden and Jean Baptiste Michel tell the story of how they tapped into this sea of information to create a new kind of telescope a tool that instead of uncovering the motions of distant stars charts trends in human history across the centuries By teaming up with Google they were able to analyze the text of millions of books The result was a new field of research and a scientific tool the Google Ngram Viewer so groundbreaking that its public release made the front page of *The New York Times* *The Wall Street Journal* and *The Boston Globe* and so addictive that Mother Jones called it the greatest timewaster in the history of the internet Using this scope Aiden and Michel and millions of users worldwide are beginning to see answers to a dizzying array of once intractable questions How quickly does technology spread Do we talk less about God today When did people start having sex instead of making love At what age do the most famous people become famous How fast does grammar change Which writers had their works most effectively censored by the Nazis When did the spelling donut start replacing the venerable doughnut Can we predict the future of human history Who is better known Bill Clinton or the rutabaga All over the world new scopes are popping up using big data to quantify the human experience at the grandest scales possible Yet dangers lurk in this ocean of 1s and 0s threats to privacy and the specter of ubiquitous government surveillance Aiden and Michel take readers on a voyage through these uncharted waters

Humanizing Big Data Colin Strong, 2015-03-03 Big data raises more questions than it answers particularly for those organizations struggling to deal with what has become an overwhelming deluge of data It can offer marketers more than simple tactical predictive analytics but organizations need a bigger picture one that generates some real insight into human behaviour to drive consumer strategy rather than just better targeting techniques *Humanizing Big Data* guides marketing managers brand managers strategists and senior executives on how to use big data strategically to redefine customer relationships for better customer engagement and an improved bottom line *Humanizing Big Data* provides a detailed understanding of the way to approach and think about the challenges and opportunities of big data enabling any brand to realize the value of their current and future data assets First it explores the nuts and bolts of data analytics and the way in which the current big data agenda is in danger of losing credibility by paying insufficient attention to what are often fundamental tenets in any form of analysis Next it sets out a

manifesto for a smart data approach drawing on an intelligent and big picture view of data analytics that addresses the strategic business challenges that businesses face Finally it explores the way in which datafication is changing the nature of the relationship between brands and consumers and why this calls for new forms of analytics to support rapidly emerging new business models After reading this book any brand should be in a position to make a step change in the value they derive from their data assets

Big Data for IoT, Cloud, and AI Anasooya Khanna,2025-01-03 Big Data for IoT Cloud and AI offers a detailed exploration of big data focusing on its integration with IoT cloud computing and AI technologies This book is divided into seven chapters presented in a logical sequence across two main parts The first part covers three chapters on data science the role of clouds and IoT in big data computing We delve into technologies that explore smart cloud computing big data analytics and cognitive machine learning capabilities Topics include cloud architecture IoT cognitive systems and mobile cloud interaction frameworks The second part comprises four chapters focusing on machine learning principles data analytics and deep learning in big data applications We discuss supervised and unsupervised machine learning methods and deep learning with artificial neural networks Brain inspired computer architectures like IBM s SyNapse TrueNorth processors Google s tensor processing unit and China s Cambricon chips are also covered Additionally big data analytics in healthcare is explored This book aims to integrate big data theories with cloud design principles and supercomputing standards promoting big data computing on smart clouds and distributed datacenters We provide insights for leveraging computer analytical and application skills to advance career development business transformation and scientific discovery in the world of big data

Competing on Talent in Today's Business World Pradeep Sahay,2018-07-26 It is currently an exciting time for organizations with regard to the recruitment of talent The business and organizational pressures for finding and hiring the best people could not be greater Recruitment has not changed as a process a vacancy still needs a suitable hire However the landscape tools technologies behaviors and expectations regarding how an organization approaches sourcing and acquiring talent are changing rapidly This book chronicles one organization s journey as it goes about re orienting the focus of its talent acquisition capability from the current reactive process to a strategic and proactive program capable of consistently sourcing and recruiting the very best people available Forward looking companies are seizing this opportunity to create a true competitive advantage in talent sourcing and acquisition They are focusing on fine tuning the fundamentals while devoting increased time and planning to the more strategic areas of talent acquisition including workforce planning and strategic sourcing Their best in class approaches elevate recruitment from a transactional short term focused activity to a strategic integrated long term approach that optimizes their investments in people This book articulates both the challenges and the response options that confront organizations as they compete for talent in this fast changing business climate The initial sections here provide a macro view on the changing work landscape and how recent trends and developments around technology and innovation are impacting the discipline of Talent Acquisition The book is designed as a

running case study profiling the best practices in recruiting Drawing on both primary and secondary research it adapts and learns from the best practices of high impact business functions such as a lean supply chain analytics process re engineering sales and marketing and discusses the leading academics and practitioners in this regard As such this book will elevate awareness and discourse on the topic and will help concretize a roadmap for organizations looking to revisit and re invent their talent acquisition philosophies and practices as they compete for talent in today s world **The Dangerous Art of**

Text Mining Jo Guldi,2023-10-05 Shows how text mining the art of counting words over time spurs insights into politics culture and historical change *Finance and Development, March 2014* International Monetary Fund. External Relations Dept.,2014-02-28 Finance and Development March 2014 **Short Stories and Political Philosophy** Erin A.

Dolgoy,Kimberly Hurd Hale,Bruce Peabody,2018-11-01 Short Stories and Political Philosophy Power Prose and Persuasion explores the relationship between fictional short stories and the classic works of political philosophy This edited volume addresses the innovative ways that short stories grapple with the same complex political and moral questions concerns and problems studied in the fields of political philosophy and ethics The volume is designed to highlight the ways in which short stories may be used as an access point for the challenging works of political philosophy encountered in higher education Each chapter analyzes a single story through the lens of thinkers ranging from Plato and Aristotle to Max Weber and Hannah Arendt The contributors to this volume do not adhere to a single theme or intellectual tradition Rather this volume is a celebration of the intellectual and literary diversity available to students and teachers of political philosophy It is a resource for scholars as well as educators who seek to incorporate short stories into their teaching practice **Culture médiatique**

et presse numérisée Jean-Luc Buard,2019 De l son enqu te devient une travers e magnifiquement document e de l histoire de la presse ainsi qu une analyse comparative in dite des gisements num ris s institutionnels ou d initiative priv e Le lecteur comme le fit l auteur verra que l exploitation m thodique des donn es num riques r v le des informations in dites sur l volution de ce patrimoine populaire consid rable dont la pr servation est souvent menac e Verso The Culture of Big Data Mike

Barlow,2013 Technology does not exist in a vacuum In the same way that a plant needs water and nourishment to grow technology needs people and process to thrive and succeed Culture i e people and process is integral and critical to the success of any new technology deployment or implementation Big data is not just a technology phenomenon It has a cultural dimension It s vitally important to remember that most people have not considered the immense difference between a world seen through the lens of a traditional relational database system and a world seen through the lens of a Hadoop Distribu

The Culture of Big Data Mike Barlow,2014-08-14 Technology does not exist in a vacuum In the same way that a plant needs water and nourishment to grow technology needs people and process to thrive and succeed Culture i e people and process is integral and critical to the success of any new technology deployment or implementation Big data is not just a technology phenomenon It has a cultural dimension It s vitally important to remember that most people have not considered

the immense difference between a world seen through the lens of a traditional relational database system and a world seen through the lens of a Hadoop Distributed File System This paper broadly describes the cultural challenges that accompany efforts to create and sustain big data initiatives in an evolving world whose data management processes are rooted firmly in traditional data warehouse architectures

Big Data Viktor Mayer-Schönberger, Kenneth Cukier, 2013 A exploration of the latest trend in technology and the impact it will have on the economy science and society at large

The Big Data-Driven Business Russell Glass, Sean Callahan, 2014-11-24 Get the expert perspective and practical advice on big data The Big Data Driven Business How to Use Big Data to Win Customers Beat Competitors and Boost Profits makes the case that big data is for real and more than just big hype The book uses real life examples from Nate Silver to Copernicus and Apple to Blackberry to demonstrate how the winners of the future will use big data to seek the truth Written by a marketing journalist and the CEO of a multi million dollar B2B marketing platform that reaches more than 90% of the U S business population this book is a comprehensive and accessible guide on how to win customers beat competitors and boost the bottom line with big data The marketplace has entered an era where the customer holds all the cards With unprecedented choice in both the consumer world and the B2B world it s imperative that businesses gain a greater understanding of their customers and prospects Big data is the key to this insight because it provides a comprehensive view of a company s customers who they are and who they may be tomorrow The Big Data Driven Business is a complete guide to the future of business as seen through the lens of big data with expert advice on real world applications Learn what big data is and how it will transform the enterprise Explore why major corporations are betting their companies on marketing technology Read case studies of big data winners and losers Discover how to change privacy and security and remodel marketing Better information allows for better decisions better targeting and better reach Big data has become an indispensable tool for the most effective marketers in the business and it s becoming less of a competitive advantage and more like an industry standard Remaining relevant as the marketplace evolves requires a full understanding and application of big data and The Big Data Driven Business provides the practical guidance businesses need

Everybody Lies Seth Stephens-Davidowitz, 2017-05-09 An Economist Best Book of the Year A PBS NewsHour Book of the Year An Entrepreneur Top Business Book An Amazon Best Book of the Year in Business and Leadership New York Times Bestseller Foreword by Steven Pinker author of The Better Angels of our Nature Blending the informed analysis of The Signal and the Noise with the instructive iconoclasm of Think Like a Freak a fascinating illuminating and witty look at what the vast amounts of information now instantly available to us reveals about ourselves and our world provided we ask the right questions By the end of an average day in the early twenty first century human beings searching the internet will amass eight trillion gigabytes of data This staggering amount of information unprecedented in history can tell us a great deal about who we are the fears desires and behaviors that drive us and the conscious and unconscious decisions we make From the profound to the mundane we can gain astonishing knowledge about the human psyche that less

than twenty years ago seemed unfathomable Everybody Lies offers fascinating surprising and sometimes laugh out loud insights into everything from economics to ethics to sports to race to sex gender and more all drawn from the world of big data What percentage of white voters didn't vote for Barack Obama because he's black Does where you go to school effect how successful you are in life Do parents secretly favor boy children over girls Do violent films affect the crime rate Can you beat the stock market How regularly do we lie about our sex lives and who's more self conscious about sex men or women Investigating these questions and a host of others Seth Stephens Davidowitz offers revelations that can help us understand ourselves and our lives better Drawing on studies and experiments on how we really live and think he demonstrates in fascinating and often funny ways the extent to which all the world is indeed a lab With conclusions ranging from strange but true to thought provoking to disturbing he explores the power of this digital truth serum and its deeper potential revealing biases deeply embedded within us information we can use to change our culture and the questions we're afraid to ask that might be essential to our health both emotional and physical All of us are touched by big data everyday and its influence is multiplying Everybody Lies challenges us to think differently about how we see it and the world

The Human Face of Big Data Rick Smolan, Jennifer Erwit, 2012 The authors invited more than 100 journalists worldwide to use photographs charts and essays to explore the world of big data and its growing influence on our lives and society

The Trouble with Big Data Jennifer Edmond, Nicola Horsley, Jörg Lehmann, Mike Priddy, 2021 This book is available as open access through the Bloomsbury Open programme and is available on www.bloomsburycollections.com It is funded by Trinity College Dublin DARIAH EU and the European Commission This book explores the challenges society faces with big data through the lens of culture rather than social political or economic trends as demonstrated in the words we use the values that underpin our interactions the biases and assumptions that drive us Focusing on areas such as data and language data and sensemaking data and power data and invisibility and big data aggregation it demonstrates that humanities research focusing on cultural rather than social political or economic frames of reference for viewing technology resists mass datafication for a reason and that those very reasons can be instructive for the critical observation of big data research and innovation

The Human Element of Big Data Geetam Tomar, Narendra S. Chaudhari, Robin Singh Bhadoria, Ganesh Chandra Deka, 2016

Man vs Big Data Stewart Cowley, 2017-10-19 Have you ever wondered how to beat the bookies How does your computer know you might like this song Should you be worried about this We can't answer that for you but Man vs Big Data does explore the numerous ways in which Big Data has sometimes imperceptibly infiltrated our lives Everything we do leaves a trail of data behind from buying something on a credit card to using a GPS enabled mobile phone whether you know it or not like it or not Big Data is now a part of modern life Heralded as the Fourth Industrial Revolution it is now more crucial than ever to learn about how data is affecting the way we live Man vs Big Data proves that this topic is one of the most important subjects facing us today and helps you get to grips with what that means for you

The Data Revolution Rob Kitchin, 2014-09-16

Carefully distinguishing between big data and open data and exploring various data infrastructures Kitchen vividly illustrates how the data landscape is rapidly changing and calls for a revolution in how we think about data Evelyn Ruppert Goldsmiths University of London Deconstructs the hype around the data revolution to carefully guide us through the histories and the futures of big data The book skilfully engages with debates from across the humanities social sciences and sciences in order to produce a critical account of how data are enmeshed into enormous social economic and political changes that are taking place Mark Graham University of Oxford Traditionally data has been a scarce commodity which given its value has been either jealously guarded or expensively traded In recent years technological developments and political lobbying have turned this position on its head Data now flow as a deep and wide torrent are low in cost and supported by robust infrastructures and are increasingly open and accessible A data revolution is underway one that is already reshaping how knowledge is produced business conducted and governance enacted as well as raising many questions concerning surveillance privacy security profiling social sorting and intellectual property rights In contrast to the hype and hubris of much media and business coverage The Data Revolution provides a synoptic and critical analysis of the emerging data landscape Accessible in style the book provides A synoptic overview of big data open data and data infrastructures An introduction to thinking conceptually about data data infrastructures data analytics and data markets A critical discussion of the technical shortcomings and the social political and ethical consequences of the data revolution An analysis of the implications of the data revolution to academic business and government practices

Big Data in the Arts and Humanities Giovanni Schiuma, Daniela Carlucci, 2018-04-27 As digital technologies occupy a more central role in working and everyday human life individual and social realities are increasingly constructed and communicated through digital objects which are progressively replacing and representing physical objects They are even shaping new forms of virtual reality This growing digital transformation coupled with technological evolution and the development of computer computation is shaping a cyber society whose working mechanisms are grounded upon the production deployment and exploitation of big data In the arts and humanities however the notion of big data is still in its embryonic stage and only in the last few years have arts and cultural organizations and institutions artists and humanists started to investigate explore and experiment with the deployment and exploitation of big data as well as understand the possible forms of collaborations based on it Big Data in the Arts and Humanities Theory and Practice explores the meaning properties and applications of big data This book examines the relevance of big data to the arts and humanities digital humanities and management of big data with and for the arts and humanities It explores the reasons and opportunities for the arts and humanities to embrace the big data revolution The book also delineates managerial implications to successfully shape a mutually beneficial partnership between the arts and humanities and the big data and computational digital based sciences Big data and arts and humanities can be likened to the rational and emotional aspects of the human mind This book attempts to integrate these two aspects of human thought to

advance decision making and to enhance the expression of the best of human life The Costs of Connection Nick
Couldry, Ulises A. Mejias, 2019-08-20 Just about any social need is now met with an opportunity to connect through digital
means But this convenience is not free it is purchased with vast amounts of personal data transferred through shadowy
backchannels to corporations using it to generate profit The Costs of Connection uncovers this process this data colonialism
and its designs for controlling our lives our ways of knowing our means of production our political participation Colonialism
might seem like a thing of the past but this book shows that the historic appropriation of land bodies and natural resources is
mirrored today in this new era of pervasive datafication Apps platforms and smart objects capture and translate our lives into
data and then extract information that is fed into capitalist enterprises and sold back to us The authors argue that this
development foreshadows the creation of a new social order emerging globally and it must be challenged Confronting the
alarming degree of surveillance already tolerated they offer a stirring call to decolonize the internet and emancipate our
desire for connection

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