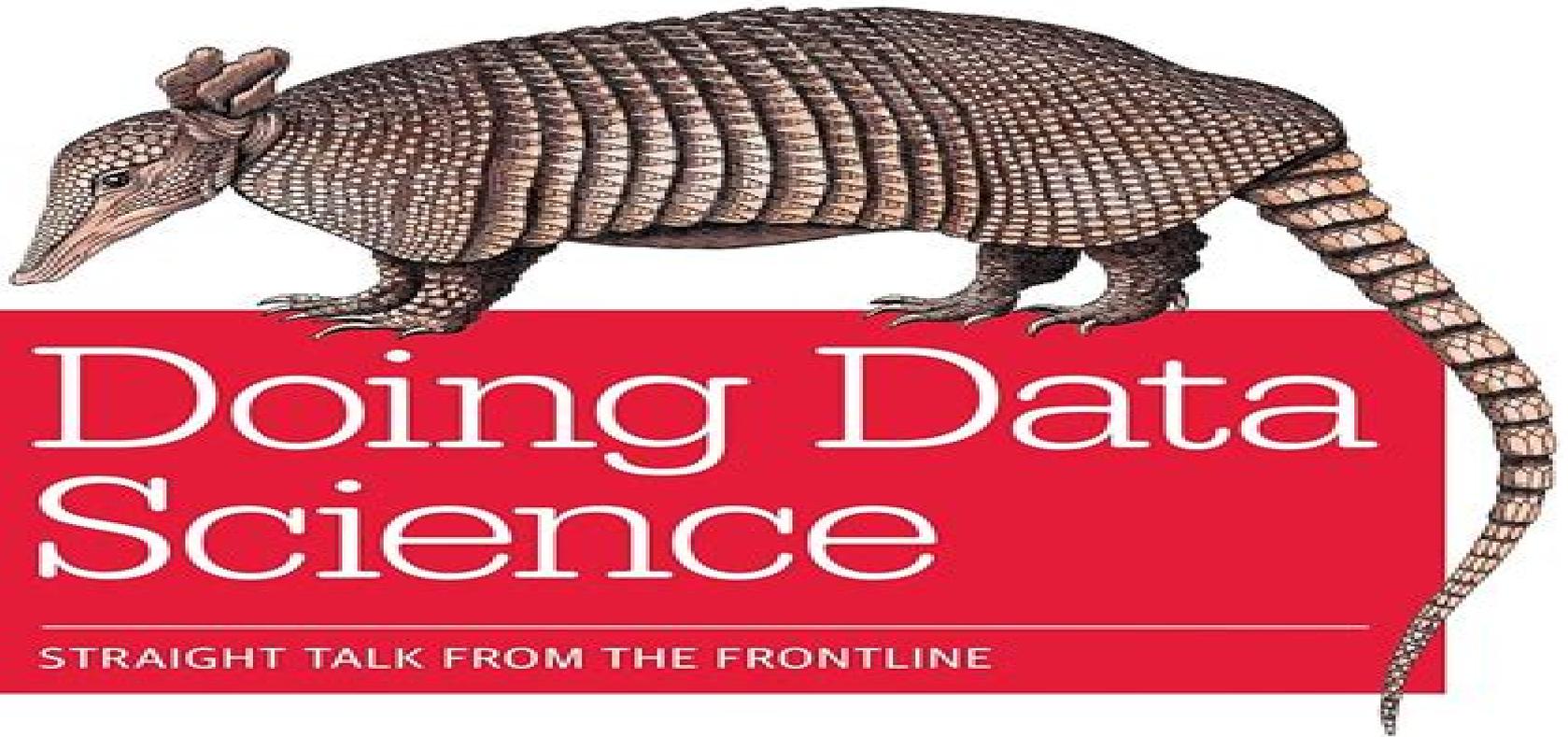


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# Doing Data Science

STRAIGHT TALK FROM THE FRONTLINE

Cathy O'Neil & Rachel Schutt

# Doing Data Science Straight Talk From The Frontline

**Jeroen Janssens**



## **Doing Data Science Straight Talk From The Frontline:**

**Doing Data Science** Cathy O'Neil, Rachel Schutt, 2013-10-09 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 is 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 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

**Build a Career in Data Science** Emily Robinson, Jacqueline Nolis, 2020-03-24 Summary You are going to need more than technical knowledge to succeed as a data scientist Build a Career in Data Science teaches you what school leaves out from how to land your first job to the lifecycle of a data science project and even how to become a manager Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the technology What are the keys to a data scientist's long term success Blending your technical know how with the right soft skills turns out to be a central ingredient of a rewarding career About the book Build a Career in Data Science is your guide to landing your first data science job and developing into a valued senior employee By following clear and simple instructions you'll learn to craft an amazing resume and ace your interviews In this demanding rapidly changing field it can be challenging to keep projects on track adapt to company needs and manage tricky stakeholders You'll love the insights on how to handle expectations deal with failures and plan your career path in the stories from seasoned data scientists included in the book What's inside Creating a portfolio of data science projects Assessing and negotiating an offer Leaving gracefully and moving up the ladder Interviews with professional data scientists About the reader For readers who want to begin or advance a data science career About the author Emily Robinson is a data scientist at Warby Parker Jacqueline Nolis is a data science consultant and mentor Table of Contents PART 1 GETTING STARTED WITH DATA SCIENCE 1 What is data science 2 Data science companies 3 Getting the skills 4 Building a portfolio PART 2 FINDING YOUR DATA SCIENCE JOB 5 The search Identifying the right job for you 6 The application Resumes and cover letters 7 The interview What to expect and how to handle it 8 The offer Knowing what to accept PART 3 SETTling INTO DATA SCIENCE 9 The first months on the job 10 Making an effective analysis 11 Deploying a model into production 12 Working with stakeholders PART 4 GROWING IN

YOUR DATA SCIENCE ROLE 13 When your data science project fails 14 Joining the data science community 15 Leaving your job gracefully 16 Moving up the ladder

*Data Science Thinking* Longbing Cao, 2018-08-17 This book explores answers to the fundamental questions driving the research innovation and practices of the latest revolution in scientific technological and economic development how does data science transform existing science technology industry economy profession and education How does one remain competitive in the data science field What is responsible for shaping the mindset and skillset of data scientists Data Science Thinking paints a comprehensive picture of data science as a new scientific paradigm from the scientific evolution perspective as data science thinking from the scientific thinking perspective as a trans disciplinary science from the disciplinary perspective and as a new profession and economy from the business perspective

Perspectives on Data Science for Software Engineering Tim Menzies, Laurie Williams, Thomas Zimmermann, 2016-07-14 Perspectives on Data Science for Software Engineering presents the best practices of seasoned data miners in software engineering The idea for this book was created during the 2014 conference at Dagstuhl an invitation only gathering of leading computer scientists who meet to identify and discuss cutting edge informatics topics At the 2014 conference the concept of how to transfer the knowledge of experts from seasoned software engineers and data scientists to newcomers in the field highlighted many discussions While there are many books covering data mining and software engineering basics they present only the fundamentals and lack the perspective that comes from real world experience This book offers unique insights into the wisdom of the community s leaders gathered to share hard won lessons from the trenches Ideas are presented in digestible chapters designed to be applicable across many domains Topics included cover data collection data sharing data mining and how to utilize these techniques in successful software projects Newcomers to software engineering data science will learn the tips and tricks of the trade while more experienced data scientists will benefit from war stories that show what traps to avoid Presents the wisdom of community experts derived from a summit on software analytics Provides contributed chapters that share discrete ideas and technique from the trenches Covers top areas of concern including mining security and social data data visualization and cloud based data Presented in clear chapters designed to be applicable across many domains

**Doing Data Science** Rachel Schutt, Cathy O'Neil, 2014

Big Data-Enabled Nursing Connie W. Delaney, Charlotte A. Weaver, Judith J. Warren, Thomas R. Clancy, Roy L. Simpson, 2017-11-02 Historically nursing in all of its missions of research scholarship education and practice has not had access to large patient databases Nursing consequently adopted qualitative methodologies with small sample sizes clinical trials and lab research Historically large data methods were limited to traditional biostatistical analyses In the United States large payer data has been amassed and structures organizations have been created to welcome scientists to explore these large data to advance knowledge discovery Health systems electronic health records EHRs have now matured to generate massive databases with longitudinal trending This text reflects how the learning health system infrastructure is maturing and being advanced by health information

exchanges HIEs with multiple organizations blending their data or enabling distributed computing It educates the readers on the evolution of knowledge discovery methods that span qualitative as well as quantitative data mining including the expanse of data visualization capacities are enabling sophisticated discovery New opportunities for nursing and call for new skills in research methodologies are being further enabled by new partnerships spanning all sectors

**Introduction to Biomedical Data Science** Robert Hoyt, Robert Muenchen, 2019-11-24 Overview of biomedical data science Spreadsheet tools and tips Biostatistics primer Data visualization Introduction to databases Big data Bioinformatics and precision medicine Programming languages for data analysis Machine learning Artificial intelligence Biomedical data science resources Appendix A Glossary Appendix B Using data world Appendix C Chapter exercises *Data Scientist Diploma (master's level) - City of London College of Economics - 6 months - 100% online / self-paced* City of London College of Economics, Overview This diploma course covers all aspects you need to know to become a successful Data Scientist Content Getting Started with Data Science Data Analytic Thinking Business Problems and Data Science Solutions Introduction to Predictive Modeling From Correlation to Supervised Segmentation Fitting a Model to Data Overfitting and Its Avoidance Similarity Neighbors and Clusters Decision Analytic Thinking I What Is a Good Model Visualizing Model Performance Evidence and Probabilities Representing and Mining Text Decision Analytic Thinking II Toward Analytical Engineering Other Data Science Tasks and Techniques Data Science and Business Strategy Machine Learning Learning from Data with Your Machine And much more Duration 6 months Assessment The assessment will take place on the basis of one assignment at the end of the course Tell us when you feel ready to take the exam and we ll send you the assignment questions Study material The study material will be provided in separate files by email download link *Recent Advancement in Geoinformatics and Data Science* Xiaogang Ma, Matty Mookerjee, Leslie Hsu, Denise Hills, 2023-04-11 The chapters in this Special Paper present the latest progress and discoveries in both the methodology and technology of geoinformatics The methodologies technologies and best practices will make this volume a useful reference with long term impacts for data intensive geoscience in the next decade and beyond

**Doing Data Science** Cathy O'Neil. Rachel Schutt, 2013 *Data Science for Beginners* Prof John Smith, 2018-12-12 DATA SCIENCE FOR BEGINNERS Introduction to Data Science Python Coding Application Statistics Decision Tree Neural Network and Linear Algebra WHAT THIS BOOK WILL DO FOR YOU We will talk about what is the need for data science and then what exactly is data science some definitions and understand The differences between data science and business intelligence Then we will talk about the prerequisites for learning data science and then what does the data scientist do What are the activities performed by a data scientist as a part of his daily life and then we will talk about the data science lifecycle with a quick example and briefly touch upon the demand or ever increasing demand for data scientist Benefits of Data science Data Science Automobile Data science Aviation Data science can also be used to make promotional offers Chapters Data science Its Advantage Data science Its Definition Process in data

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**Marketing Guidebook**, 2001      **Cleaning Data for Effective Data Science** David Mertz, 2021-03-31 Think about your data intelligently and ask the right questions Key Features Master data cleaning techniques necessary to perform real world data science and machine learning tasks Spot common problems with dirty data and develop flexible solutions from first principles Test and refine your newly acquired skills through detailed exercises at the end of each chapter Book Description Data cleaning is the all important first step to successful data science data analysis and machine learning If you work with any kind of data this book is your go to resource arming you with the insights and heuristics experienced data scientists had to learn the hard way In a light hearted and engaging exploration of different tools techniques and datasets real and fictitious Python veteran David Mertz teaches you the ins and outs of data preparation and the essential questions you should be asking of every piece of data you work with Using a mixture of Python R and common command line tools *Cleaning Data for Effective Data Science* follows the data cleaning pipeline from start to end focusing on helping you understand the principles underlying each step of the process You ll look at data ingestion of a vast range of tabular hierarchical and other data formats impute missing values detect unreliable data and statistical anomalies and generate synthetic features The long form exercises at the end of each chapter let you get hands on with the skills you ve acquired along the way also providing a valuable resource for academic courses What you will learn Ingest and work with common data formats like JSON CSV SQL and NoSQL databases PDF and binary serialized data structures Understand how and why we use tools such as pandas SciPy scikit learn Tidyverse and Bash Apply useful rules and heuristics for assessing data quality and detecting bias like Benford s law and the 68 95 99 7 rule Identify and handle unreliable data and outliers examining z score and other statistical properties Impute sensible values into missing data and use sampling to fix imbalances Use dimensionality reduction quantization one hot encoding and other feature engineering techniques to draw out patterns in your data Work carefully with time series data performing de trending and interpolation Who this book is for This book is designed to benefit software developers data scientists aspiring data scientists teachers and students who work with data If you want to improve your rigor in data hygiene or are looking for a refresher this book is for you Basic familiarity with statistics general concepts in machine learning knowledge of a programming language Python or R and some exposure to data science are helpful

*Becoming a Data Head* Alex J. Gutman, Jordan Goldmeier, 2021-04-13 Turn yourself into a Data Head You ll become a more valuable employee and make your organization more successful Thomas H Davenport Research Fellow Author of *Competing on Analytics Big Data Work and The AI Advantage* You ve heard the hype around data now get the facts In *Becoming a Data Head How to Think Speak and Understand Data Science Statistics and Machine Learning* award winning data scientists Alex Gutman and Jordan Goldmeier pull back the curtain on data science and give you the language and tools necessary to talk and think critically about it You ll learn how to Think statistically and understand the role variation plays in your life and decision making Speak intelligently and ask the right questions about the statistics and results you encounter in

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