

Data Scientists At Work

Becoming a Data Head Alex J. Gutman 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 the workplace Understand what's really going on with machine learning, text analytics, deep learning, and artificial intelligence Avoid common pitfalls when working with and interpreting data *Becoming a Data Head* is a complete guide for data science in the workplace: covering everything from the personalities you'll work with to the math behind the algorithms. The authors have spent years in data trenches and sought to create a fun, approachable, and eminently readable book. Anyone can become a Data Head—an active participant in data science, statistics, and machine learning. Whether you're a business professional, engineer, executive, or aspiring data scientist, this book is for you.

The Health Information Workforce Kerryn Butler-Henderson 2021-11-10 This book provides a detailed guide to the highly specialised but little known health information workforce - people who are health informaticians, digital health experts, and managers of health data, health information and health knowledge. It explains the basis of their unique functions within healthcare - their educational pathways and standards, professional qualifications and industry certifications, scholarly foundations and principles of good practice. It explores their challenges, including the rise of the health consumer movement, the drive to improve equity and quality in healthcare, new technologies such as artificial intelligence, and the COVID-19 infodemic. Case studies describe how practitioners in real-world roles around the world are addressing the digital transformation of health. *The Health Information Workforce: Current and Future Developments* offers insights into a skilled group of people who are essential for healthcare services to function, for care providers to practice at the top of their scope, for researchers to generate significant insights, and for care consumers to be empowered participants in health systems. This book offers new perspectives for anyone working or intending to work in the health sector. It is a critical resource for health workforce planners, employers and educators seeking guidance on the specialised capabilities needed for high performance in an increasingly information-intensive sector.

Proceedings of the American Association for the Advancement of Science American Association for the Advancement of Science 1881

The Data Science Handbook Field Cady 2017-02-28 A comprehensive overview of data science covering the analytics, programming, and business skills necessary to master the discipline Finding a good data scientist has been likened to hunting for a unicorn: the required combination of technical skills is simply very hard to find in one person. In addition, good data science is not just rote application of trainable skill sets; it requires the ability to think flexibly about all these areas and understand the connections between them. This book provides a crash course in data science, combining all the necessary skills into a unified discipline. Unlike many analytics books, computer science and software engineering are given extensive coverage since they play such a central role in the daily work of a data scientist. The author also describes classic machine learning algorithms, from their mathematical foundations to real-world applications. Visualization tools are reviewed, and their central importance in data science is highlighted. Classical statistics is addressed to help readers think critically about the interpretation of data and its common pitfalls. The clear communication of technical results, which is perhaps the most undertrained of data science skills, is given its own chapter, and all topics are explained in the context of solving real-world data problems. The book also features: • Extensive sample code and tutorials using Python™ along with its

technical libraries • Core technologies of "Big Data," including their strengths and limitations and how they can be used to solve real-world problems • Coverage of the practical realities of the tools, keeping theory to a minimum; however, when theory is presented, it is done in an intuitive way to encourage critical thinking and creativity • A wide variety of case studies from industry • Practical advice on the realities of being a data scientist today, including the overall workflow, where time is spent, the types of datasets worked on, and the skill sets needed *The Data Science Handbook* is an ideal resource for data analysis methodology and big data software tools. The book is appropriate for people who want to practice data science, but lack the required skill sets. This includes software professionals who need to better understand analytics and statisticians who need to understand software. Modern data science is a unified discipline, and it is presented as such. This book is also an appropriate reference for researchers and entry-level graduate students who need to learn real-world analytics and expand their skill set. FIELD CADY is the data scientist at the Allen Institute for Artificial Intelligence, where he develops tools that use machine learning to mine scientific literature. He has also worked at Google and several Big Data startups. He has a BS in physics and math from Stanford University, and an MS in computer science from Carnegie Mellon.

Proceedings of the 23rd European Conference on Cyber Warfare and Security Dr Martti Lehto 2024-06-27 These proceedings represent the work of contributors to the 23rd European Conference on Cyber Warfare and Security (ECCWS 2024), supported by University of Jyväskylä, and JAMK University of Applied Sciences, Finland on 27-28 June 2024. The Conference Chair is Dr Martti Lehto from the University of Jyväskylä, Finland, and the Programme Chair is Dr Mika Karjalainen from JAMK University of Applied Sciences, Finland. ECCWS is a well-established event on the academic research calendar and now in its 23rd year conference remains the opportunity for participants to network and share ideas. The aims and scope of the conference is to be a forum for technical, theoretical and practical exchange about the study, management, development and implementation of systems and concepts to improve cyber security and combat cyber warfare. The opening keynote presentation is given by Stefan Lee, from Ministry of Transport and Communications, Finland, on the topic of Geopolitics and Cyberspace: Key Implications for National Cybersecurity Policies and Strategies. The second day of the conference will open with an address by Colonel Janne Jokinen, Finnish Defence Force, Finland speaking on Ten Practical Hindrances to Building Cyber Defence. With an initial submission of 171 abstracts, after the double blind, peer review process there are 180 Academic research papers, 11 PhD research papers, 6 Masters research paper and 2 work-in-progress papers published in these Conference Proceedings. These papers represent research from Australia, Austria, Belgium, Canada, Czech Republic, Estonia, Finland, Germany, Ireland, Japan, Kingdom of Saudi Arabia, Lithuania, Norway, Oman, Poland, Portugal, Romania, South Africa, Spain, The Czech republic, United Arab Emirates, UK and USA.

Getting into Data Science William C. Ford 2015-09-01 Data scientists are in demand as never before, and if you have the skills in advanced analytics, big data, machine learning, and project management, you can pretty much write your own ticket. Even better, those with skills in computer science, statistics, business intelligence, and any of the other disciplines that underlie data science can, with additional education in key topics, find work as data scientists. *Getting Into Data Science: Tools and Techniques for Professional Success* shows you how. Data scientists help companies navigate in a business world in which data now rules and those who can find it, extract it, shape it, and make profitable use of it gain sizable advantages over competitors. Given the speed of technological change, companies in all industries need help more than ever before to create value from the mountains of data their organizations generate. They need data scientists. In this book, author William Ford, a data scientist himself, shows that data scientists, like professionals in other transformational periods, are indispensable change agents that help organizations solve immediate problems, manage challenges, and bridge the gap into new fields of economic opportunity. But there's a catch. you need to develop the chops to call yourself a data scientist credibly. You need the hard skills related to data science, including skills in computer science, math, machine learning, statistics,

and more. You also need some soft skills, like the ability to convey ideas, lead a project team, and coach other people. Those going out on their own to consult also need business skills—like the ability to market yourself or identify a strategic point of leverage that a project can exploit. Getting into Data Science strives to help budding data scientists understand which skills they need to master to position themselves in roles that help organizations thrive in our data-driven world. This book shows you: The skills and education required for success as a data scientist The tools and methods data scientists use to solve problems, prototype analytic variables, and find opportunities in data sets How to develop the project management, organizational, and "soft" skills data scientists need to prosper whether working as an employee or as a consultant How to help your organization or consulting clients become data driven on a project-by-project basis This book will help you develop the essential career skills required to enter the exciting field of data science whether you want to work for a leading tech company or startup, or choose to work as a consultant in some capacity. In short, this book will outline how to become upwardly mobile as a data scientist. For those with the right skills, the time to move into this field is now—while the data science fire is hot.

Analyzing the Analyzers Harlan Harris 2013-06-10 Despite the excitement around "data science," "big data," and "analytics," the ambiguity of these terms has led to poor communication between data scientists and organizations seeking their help. In this report, authors Harlan Harris, Sean Murphy, and Marck Vaisman examine their survey of several hundred data science practitioners in mid-2012, when they asked respondents how they viewed their skills, careers, and experiences with prospective employers. The results are striking. Based on the survey data, the authors found that data scientists today can be clustered into four subgroups, each with a different mix of skillsets. Their purpose is to identify a new, more precise vocabulary for data science roles, teams, and career paths. This report describes: Four data scientist clusters: Data Businesspeople, Data Creatives, Data Developers, and Data Researchers Cases in miscommunication between data scientists and organizations looking to hire Why "T-shaped" data scientists have an advantage in breadth and depth of skills How organizations can apply the survey results to identify, train, integrate, team up, and promote data scientists

Build a Career in Data Science Emily Robinson 2020-03-06 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: Résumés 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

Machine Learning for Decision Sciences with Case Studies in Python S. Sumathi 2022-07-08 This book provides a detailed description of machine learning algorithms in data analytics, data science life

cycle, Python for machine learning, linear regression, logistic regression, and so forth. It addresses the concepts of machine learning in a practical sense providing complete code and implementation for real-world examples in electrical, oil and gas, e-commerce, and hi-tech industries. The focus is on Python programming for machine learning and patterns involved in decision science for handling data. Features: Explains the basic concepts of Python and its role in machine learning. Provides comprehensive coverage of feature engineering including real-time case studies. Perceives the structural patterns with reference to data science and statistics and analytics. Includes machine learning-based structured exercises.

Appreciates different algorithmic concepts of machine learning including unsupervised, supervised, and reinforcement learning. This book is aimed at researchers, professionals, and graduate students in data science, machine learning, computer science, and electrical and computer engineering.

Data Science from Scratch Joel Grus 2019-04-12 Data science libraries, frameworks, modules, and toolkits are great for doing data science, but they're also a good way to dive into the discipline without actually understanding data science. With this updated second edition, you'll learn how many of the most fundamental data science tools and algorithms work by implementing them from scratch. If you have an aptitude for mathematics and some programming skills, author Joel Grus will help you get comfortable with the math and statistics at the core of data science, and with hacking skills you need to get started as a data scientist. Today's messy glut of data holds answers to questions no one's even thought to ask. This book provides you with the know-how to dig those answers out.

Data Scientists at Work Sebastian Gutierrez 2014-12-12 Data Scientists at Work is a collection of interviews with sixteen of the world's most influential and innovative data scientists from across the spectrum of this hot new profession. "Data scientist is the sexiest job in the 21st century," according to the Harvard Business Review. By 2018, the United States will experience a shortage of 190,000 skilled data scientists, according to a McKinsey report. Through incisive in-depth interviews, this book mines the what, how, and why of the practice of data science from the stories, ideas, shop talk, and forecasts of its preeminent practitioners across diverse industries: social network (Yann LeCun, Facebook); professional network (Daniel Tunkelang, LinkedIn); venture capital (Roger Ehrenberg, IA Ventures); enterprise cloud computing and neuroscience (Eric Jonas, formerly Salesforce.com); newspaper and media (Chris Wiggins, The New York Times); streaming television (Caitlin Smallwood, Netflix); music forecast (Victor Hu, Next Big Sound); strategic intelligence (Amy Heineike, Quid); environmental big data (André Karpištsenko, Planet OS); geospatial marketing intelligence (Jonathan Lenaghan, PlaceIQ); advertising (Claudia Perlich, Dstillery); fashion e-commerce (Anna Smith, Rent the Runway); specialty retail (Erin Shellman, Nordstrom); email marketing (John Foreman, MailChimp); predictive sales intelligence (Kira Radinsky, SalesPredict); and humanitarian nonprofit (Jake Porway, DataKind). The book features a stimulating foreword by Google's Director of Research, Peter Norvig. Each of these data scientists shares how he or she tailors the torrent-taming techniques of big data, data visualization, search, and statistics to specific jobs by dint of ingenuity, imagination, patience, and passion. Data Scientists at Work parts the curtain on the interviewees' earliest data projects, how they became data scientists, their discoveries and surprises in working with data, their thoughts on the past, present, and future of the profession, their experiences of team collaboration within their organizations, and the insights they have gained as they get their hands dirty refining mountains of raw data into objects of commercial, scientific, and educational value for their organizations and clients.

Handbook of Education Policy Research Lora Cohen-Vogel 2025-07-17 The second edition of the Handbook of Education Policy Research—the largest volume published in AERA's history—addresses a variety of policy and contextual issues in early childhood, K-12, and postsecondary education that have received extensive empirical attention during the past 15 years. With the pandemic and social turmoil as a backdrop, the editors build on the breadth and depth of the first edition while expanding the scope of the project to include subjects, methods, theories, and analyses that have contributed powerfully to the study of education policy and politics in the 2010s and 2020s. The field has become more comprehensive and inclusive, and the authors represent a diversity of racial/ethnic and gender identities and intellectual and disciplinary orientations. Most chapters come from multiple authors, reflecting the multi-sourced development of research in education policy since the first volume was published. This compilation consists of 70 chapters and nine commentaries that map past, present, and future directions of the field and richly attend to critical

issues of interest to students, researchers, policy makers, and practitioners.

The Decision Maker's Handbook to Data Science Stylianos Kampakis 2019-11-26 Data science is expanding across industries at a rapid pace, and the companies first to adopt best practices will gain a significant advantage. To reap the benefits, decision makers need to have a confident understanding of data science and its application in their organization. It is easy for novices to the subject to feel paralyzed by intimidating buzzwords, but what many don't realize is that data science is in fact quite multidisciplinary—useful in the hands of business analysts, communications strategists, designers, and more. With the second edition of *The Decision Maker's Handbook to Data Science*, you will learn how to think like a veteran data scientist and approach solutions to business problems in an entirely new way. Author Stylianos Kampakis provides you with the expertise and tools required to develop a solid data strategy that is continuously effective. Ethics and legal issues surrounding data collection and algorithmic bias are some common pitfalls that Kampakis helps you avoid, while guiding you on the path to build a thriving data science culture at your organization. This updated and revised second edition, includes plenty of case studies, tools for project assessment, and expanded content for hiring and managing data scientists. Data science is a language that everyone at a modern company should understand across departments. Friction in communication arises most often when management does not connect with what a data scientist is doing or how impactful data collection and storage can be for their organization. *The Decision Maker's Handbook to Data Science* bridges this gap and readies you for both the present and future of your workplace in this engaging, comprehensive guide. What You Will Learn Understand how data science can be used within your business. Recognize the differences between AI, machine learning, and statistics. Become skilled at thinking like a data scientist, without being one. Discover how to hire and manage data scientists. Comprehend how to build the right environment in order to make your organization data-driven. Who This Book Is For Startup founders, product managers, higher level managers, and any other non-technical decision makers who are thinking to implement data science in their organization and hire data scientists. A secondary audience includes people looking for a soft introduction into the subject of data science.

Data Science Field Cady 2020-12-30 Tap into the power of data science with this comprehensive resource for non-technical professionals *Data Science: The Executive Summary - A Technical Book for Non-Technical Professionals* is a comprehensive resource for people in non-engineer roles who want to fully understand data science and analytics concepts. Accomplished data scientist and author Field Cady describes both the "business side" of data science, including what problems it solves and how it fits into an organization, and the technical side, including analytical techniques and key technologies. *Data Science: The Executive Summary* covers topics like: Assessing whether your organization needs data scientists, and what to look for when hiring them When Big Data is the best approach to use for a project, and when it actually ties analysts' hands Cutting edge Artificial Intelligence, as well as classical approaches that work better for many problems How many techniques rely on dubious mathematical idealizations, and when you can work around them Perfect for executives who make critical decisions based on data science and analytics, as well as managers who hire and assess the work of data scientists, *Data Science: The Executive Summary* also belongs on the bookshelves of salespeople and marketers who need to explain what a data analytics product does. Finally, data scientists themselves will improve their technical work with insights into the goals and constraints of the business situation.

Working with AI Thomas H. Davenport 2022-09-27 Two management and technology experts show that AI is not a job destroyer, exploring worker-AI collaboration in real-world work settings. This book breaks through both the hype and the doom-and-gloom surrounding automation and the deployment of artificial intelligence-enabled—"smart"—systems at work. Management and technology experts Thomas Davenport and Steven Miller show that, contrary to widespread predictions, prescriptions, and denunciations, AI is not primarily a job destroyer. Rather, AI changes the way we work—by taking over some tasks but not entire jobs, freeing people to do other, more important and more challenging work. By offering detailed, real-world case studies of AI-augmented jobs in settings that range from finance to the factory floor, Davenport and Miller also show that AI in the workplace is not the stuff of futuristic speculation. It is happening now to many companies and workers. These cases include a digital system for life insurance underwriting that

analyzes applications and third-party data in real time, allowing human underwriters to focus on more complex cases; an intelligent telemedicine platform with a chat-based interface; a machine learning-system that identifies impending train maintenance issues by analyzing diesel fuel samples; and Flippy, a robotic assistant for fast food preparation. For each one, Davenport and Miller describe in detail the work context for the system, interviewing job incumbents, managers, and technology vendors. Short "insight" chapters draw out common themes and consider the implications of human collaboration with smart systems.

The Real Work of Data Science Ron S. Kenett 2019-05-06 The essential guide for data scientists and for leaders who must get more from their data science teams *The Economist* boldly claims that data are now "the world's most valuable resource." But, as Kenett and Redman so richly describe, unlocking that value requires far more than technical excellence. *The Real Work of Data Science* explores understanding the problems, dealing with quality issues, building trust with decision makers, putting data science teams in the right organizational spots, and helping companies become data-driven. This is the work that spells the difference between a good data scientist and a great one, between a team that makes marginal contributions and one that drives the business, between a company that gains some value from its data and one in which data truly is "the most valuable resource." "These two authors are world-class experts on analytics, data management, and data quality; they've forgotten more about these topics than most of us will ever know. Their book is pragmatic, understandable, and focused on what really counts. If you want to do data science in any capacity, you need to read it." —Thomas H. Davenport, Distinguished Professor, Babson College and Fellow, MIT Initiative on the Digital Economy "I like your book. The chapters address problems that have faced statisticians for generations, updated to reflect today's issues, such as computational Big Data." —Sir David Cox, Warden of Nuffield College and Professor of Statistics, Oxford University "Data science is critical for competitiveness, for good government, for correct decisions. But what is data science? Kenett and Redman give, by far, the best introduction to the subject I have seen anywhere. They address the critical questions of formulating the right problem, collecting the right data, doing the right analyses, making the right decisions, and measuring the actual impact of the decisions. This book should become required reading in statistics and computer science departments, business schools, analytics institutes and, most importantly, by all business managers." —A. Blanton Godfrey, Joseph D. Moore Distinguished University Professor, Wilson College of Textiles, North Carolina State University *A Friendly Guide to Data Science* Kelly P. Vincent 2025-06-26 Unlock the world of data science—no coding required. Curious about data science but not sure where to start? This book is a beginner-friendly guide to what data science is and how people use it. It walks you through the essential topics—what data analysis involves, which skills are useful, and how terms like "data analytics" and "machine learning" connect—without getting too technical too fast. Data science isn't just about crunching numbers, pulling data from a database, or running fancy algorithms. It's about asking the right questions, understanding the process from start to finish, and knowing what's possible (and what's not). This book teaches you all of that, while also introducing important topics like ethics, privacy, and security—because working with data means thinking about people, too. Whether you're a student exploring new skills, a professional navigating data-driven decisions, or someone considering a career change, this book is your friendly gateway into the world of data science, one of today's most exciting fields. No coding or programming experience? No problem. You'll build a solid foundation and gain the confidence to engage with data science concepts— just as AI and data become increasingly central to everyday life. What You Will Learn Grasp foundational statistics and how it matters in data analysis and data science Understand the data science project life cycle and how to manage a data science project Examine the ethics of working with data and its use in data analysis and data science Understand the foundations of data security and privacy Collect, store, prepare, visualize, and present data Identify the many types of machine learning and know how to gauge performance Prepare for and find a career in data science Who This Book is for A wide range of readers who are curious about data science and eager to build a strong foundation. Perfect for undergraduates in the early semesters of their data science degrees, as it assumes no prior programming or industry experience. Professionals will find particular value in the real-world insights shared through practitioner interviews. Business leaders can use it to better understand what data science can do for them and how their teams are applying it. And for career changers, this book offers a welcoming entry point into the field—helping them explore the

landscape before committing to more intensive learning paths like degrees or boot camps.

Using Computer Science in Online Retail Careers Carla Mooney 2017-07-15 Technology has changed the way that people shop. And those changes have brought with them new ways for retailers to interact with those customers, which requires businesses to hire more technologically savvy employees. This comprehensive guide to building a career in coding and online retail takes a look at how to get an education in the field, which types of businesses are hiring and why, and the different routes those aspiring to a career in online retail are taking on the path to success.

Journey to Data Scientist Kate Strachnyi 2017-11-13 When author Kate Strachnyi wanted to learn more about data science, she went straight to the source. In a series of more than twenty interviews, she asks leading data scientists questions about starting in the field and the future of the industry. With their stories, learn about the many different positions available for data scientists, the criteria recruiters look for when hiring, the best options for building your portfolio, the recruitment and interviewing process, the typical workday for a data scientist, the changing industry and its impact on other industries, the wide variety of projects that use data science, and the skills that can complement and improve your work. Strachnyi's interview subjects include team members from some of the world's largest organizations, including LinkedIn, Pinterest, Bloomberg, and IBM. These men and women graciously explain how they fell in love with data science and list the must-have skills that would make you an invaluable member of a team. Their advice gives you invaluable insight into the world of data science and the best ways you yourself can contribute to amazing research projects and the development of new technology.

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.

Data Scientists At Work

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