



# Data Science Live Book

An intuitive and practical approach to data analysis, data preparation and machine learning, suitable for all ages!

by Pablo Casas

# Data Science Live Book

**Bogumil Kaminski**



## **Data Science Live Book:**

Data Science Live Book Pablo Casas, 2018-03-16 Welcome It's a book to learn data science machine learning and data analysis with tons of examples and explanations around several topics like Exploratory data analysis Data preparation Selecting best variables Model performance Note This is the Black among others using easy copy paste pieces of code Please note that this is not a book to learn how to program R from scratch nor how algorithms are implemented math and stats area Who is the target audience It's aimed to people who are Programmers and data scientists who work or want to in machine learning projects However the ones who don't want or don't know how to code can get some useful insights which can add value as data project analysts All the R examples are well explained in code comments No math or statistical background to understand it The book tries to be as tool independent as possible For example the decision of what to do to deal with missing or extreme values is the whether we choose R Python Julia What it changes is the how Last words To develop a critical thinking without taking any statement as the true truth it's essential in this sea of books courses videos and any technical material to learn This book is just another view in the data science perspective Hope you like it Index Exploratory data analysis Profiling The voice of the numbers Correlation and Relationship Data preparation Handling Data Types High Cardinality Variable in Descriptive Stats High Cardinality Variable in Predictive Modeling Treatment of outliers Missing Data Analysis Handling and Imputation of Considerations involving time Selecting best variables General Aspects in Selecting Best Variables Intuition The best selection The nature of the selection Improving variables Cleaning by domain knowledge Variables work in groups Correlation between input variables Keep it simple Variable selection in Clustering Selecting the best variables in practice Target profiling Assessing Model performance Knowing the Error Out of Time Validation Gain and Lift Analysis Scoring Data Appendix The magic of percentiles fun Modeling quick start

**Graph Algorithms for Data Science** Tomaž Bratanic, 2024-03-12 Practical methods for analyzing your data with graphs revealing hidden connections and new insights Graphs are the natural way to represent and understand connected data This book explores the most important algorithms and techniques for graphs in data science with concrete advice on implementation and deployment You don't need any graph experience to start benefiting from this insightful guide These powerful graph algorithms are explained in clear jargon free text and illustrations that makes them easy to apply to your own projects In Graph Algorithms for Data Science you will learn Labeled property graph modeling Constructing a graph from structured data such as CSV or SQL NLP techniques to construct a graph from unstructured data Cypher query language syntax to manipulate data and extract insights Social network analysis algorithms like PageRank and community detection How to translate graph structure to a ML model input with node embedding models Using graph features in node classification and link prediction workflows Graph Algorithms for Data Science is a hands on guide to working with graph based data in applications like machine learning fraud detection and business data analysis It's filled with fascinating and fun projects demonstrating the ins and

outs of graphs You ll gain practical skills by analyzing Twitter building graphs with NLP techniques and much more  
Foreword by Michael Hunger About the technology A graph put simply is a network of connected data Graphs are an efficient way to identify and explore the significant relationships naturally occurring within a dataset This book presents the most important algorithms for graph data science with examples from machine learning business applications natural language processing and more About the book Graph Algorithms for Data Science shows you how to construct and analyze graphs from structured and unstructured data In it you ll learn to apply graph algorithms like PageRank community detection clustering and knowledge graph models by putting each new algorithm to work in a hands on data project This cutting edge book also demonstrates how you can create graphs that optimize input for AI models using node embedding What s inside Creating knowledge graphs Node classification and link prediction workflows NLP techniques for graph construction About the reader For data scientists who know machine learning basics Examples use the Cypher query language which is explained in the book About the author Toma Bratanic works at the intersection of graphs and machine learning Arturo Geigel was the technical editor for this book Table of Contents PART 1 INTRODUCTION TO GRAPHS 1 Graphs and network science An introduction 2 Representing network structure Designing your first graph model PART 2 SOCIAL NETWORK ANALYSIS 3 Your first steps with Cypher query language 4 Exploratory graph analysis 5 Introduction to social network analysis 6 Projecting monopartite networks 7 Inferring co occurrence networks based on bipartite networks 8 Constructing a nearest neighbor similarity network PART 3 GRAPH MACHINE LEARNING 9 Node embeddings and classification 10 Link prediction 11 Knowledge graph completion 12 Constructing a graph using natural language processing technique **Julia for Data Analysis** Bogumil Kaminski,2023-01-10 Julia for Data Analysis teaches you how to handle core data analysis tasks with the Julia programming language You ll start by reviewing language fundamentals you ll master essential data analysis skills through engaging examples Along the way you ll learn to easily transfer existing data pipelines to Julia *Data Without Labels* Vaibhav Verdhan,2025-06-24 Discover all practical implementations of the key algorithms and models for handling unlabeled data Full of case studies demonstrating how to apply each technique to real world problems In *Data Without Labels* you ll learn Fundamental building blocks and concepts of machine learning and unsupervised learning Data cleaning for structured and unstructured data like text and images Clustering algorithms like K means hierarchical clustering DBSCAN Gaussian Mixture Models and Spectral clustering Dimensionality reduction methods like Principal Component Analysis PCA SVD Multidimensional scaling and t SNE Association rule algorithms like aPriori ECLAT SPADE Unsupervised time series clustering Gaussian Mixture models and statistical methods Building neural networks such as GANs and autoencoders Dimensionality reduction methods like Principal Component Analysis and multidimensional scaling Association rule algorithms like aPriori ECLAT and SPADE Working with Python tools and libraries like sci kit learn numpy Pandas matplotlib Seaborn Keras TensorFlow and Flask How to interpret the results of unsupervised learning Choosing the right

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**Fighting Churn with Data** Carl Gold,2020-11-13 The beating heart of any product or service business is returning clients Don t let your hard won customers vanish taking their money with them In Fighting Churn with Data you ll learn powerful data driven techniques to maximize customer retention and minimize actions that cause them to stop engaging or unsubscribe altogether Summary The beating heart of any product or service business is returning clients Don t let your hard won customers vanish taking their money with them In Fighting Churn with Data you ll learn powerful data driven techniques to maximize customer retention and minimize actions that cause them to stop engaging or unsubscribe altogether This hands on guide is packed with techniques for converting raw data into measurable metrics testing hypotheses and presenting findings that are easily understandable to non technical decision makers Purchase of the print book includes

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**Exploring the Opportunities of Big Data** Chitrani Kaul,2025-01-03 The illustrations in this book are created by Team Educohack Exploring the Opportunities of Big Data delves into the transformative potential of Big Data a concept that has become integral to modern technology and business practices This book provides an in depth understanding of how Big Data is produced stored and managed by companies and how it is revolutionizing various industries We discuss how Big Data simplifies everyday tasks and is pivotal in fields like healthcare fashion and business The book highlights both the opportunities and challenges associated with Big Data including privacy concerns It is designed for budding engineers and tech enthusiasts offering a comprehensive guide from basic concepts to advanced applications Readers will learn how Big Data can drive career growth and innovation By the end of this book you will have a thorough understanding of Big Data and its impact on our world equipping you with the knowledge to leverage its benefits [Deep Learning with Structured Data](#) Mark Ryan,2020-12-08 Deep Learning with Structured Data teaches you powerful data analysis techniques for tabular data and relational databases Summary Deep learning offers the potential to identify complex patterns and relationships hidden in data of all sorts Deep Learning with Structured Data shows you how to apply powerful deep learning analysis techniques to the kind of structured tabular data you ll find in the relational databases that real world businesses depend on Filled with practical relevant applications this book teaches you how deep learning can augment your existing machine learning and business intelligence systems Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from

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**The Data Science Handbook** Field Cady, 2024-10-31 Practical accessible guide to becoming a data scientist updated to include the latest advances in data science and related fields Becoming a data scientist is hard The job focuses on mathematical tools but also demands fluency with software engineering understanding of a business situation and deep understanding of the data itself This book provides a crash course in data science combining all the necessary skills into a unified discipline The focus of The Data Science Handbook is on practical applications and the ability to solve real problems rather than theoretical formalisms that are rarely needed in practice Among its key points are An emphasis on software engineering and coding skills which play a significant role in most real data science problems Extensive sample code detailed discussions of important libraries and a solid grounding in core concepts from computer science computer architecture runtime complexity and programming paradigms A broad overview of important mathematical tools including classical techniques in statistics stochastic modeling regression numerical optimization and more Extensive tips about the practical realities of working as a data scientist including understanding related jobs functions project life cycles and the varying roles of data science in an organization Exactly the right amount of theory A solid conceptual foundation is required for fitting the right model to a business problem understanding a tool s limitations and reasoning about discoveries Data science is a quickly evolving field and this 2nd edition has been updated to reflect the latest developments including the revolution in AI that has come from Large Language Models and the growth of ML Engineering as its own discipline Much of data science has become a skillset that anybody can have making this book not only for aspiring data scientists but also for professionals in other fields who want to use analytics as a force multiplier in

their organization [Data-Driven Cybersecurity](#) Mariano Mattei, 2025-09-09 Measure improve and communicate the value of your security program Every business decision should be driven by data and cyber security is no exception In Data Driven Cybersecurity you ll master the art and science of quantifiable cybersecurity learning to harness data for enhanced threat detection response and mitigation You ll turn raw data into meaningful intelligence better evaluate the performance of your security teams and proactively address the vulnerabilities revealed by the numbers Data Driven Cybersecurity will teach you how to Align a metrics program with organizational goals Design real time threat detection dashboards Predictive cybersecurity using AI and machine learning Data driven incident response Apply the ATLAS methodology to reduce alert fatigue Create compelling metric visualizations Data Driven Cybersecurity teaches you to implement effective data driven cybersecurity practices including utilizing AI and machine learning for detection and prediction Throughout the book presents security as a core part of organizational strategy helping you align cyber security with broader business objectives If you re a CISO or security manager you ll find the methods for communicating metrics to non technical stakeholders invaluable Foreword by Joseph Steinberg About the technology A data focused approach to cybersecurity uses metrics analytics and automation to detect threats earlier respond faster and align security with business goals About the book Data Driven Cybersecurity shows you how to turn complex security metrics into evidence based security practices You ll learn to define meaningful KPIs communicate risk to stakeholders and turn complex data into clear action You ll begin by answering the important questions what makes a good security metric How can I align security with broader business objectives What makes a robust data driven security management program Python scripts and Jupyter notebooks make collecting security data easy and help build a real time threat detection dashboards You ll even see how AI and machine learning can proactively predict cybersecurity incidents What s inside Improve your alert system using the ATLAS framework Elevate your organization s security posture Statistical and ML techniques for threat detection Executive buy in and strategic investment About the reader For readers familiar with the basics of cybersecurity and data analysis About the author Mariano Mattei is a professor at Temple University and an information security professional with over 30 years of experience in cybersecurity and AI innovation Table of Contents Part 1 Building the foundation 1 Introducing cybersecurity metrics 2 Cybersecurity analytics toolkit 3 Implementing a security metrics program 4 Integrating metrics into business strategy Part 2 The metrics that matter 5 Establishing the foundation 6 Foundations of cyber risk 7 Protecting your assets 8 Continuous threat detection 9 Incident management and recovery Part 3 Beyond the basics Advanced analytics machine learning and AI 10 Advanced cybersecurity metrics 11 Advanced statistical analysis 12 Advanced machine learning analysis 13 Generative AI in cybersecurity metrics Get a free eBook PDF or ePub from Manning as well as access to the online liveBook format and its AI assistant that will answer your questions in any language when you purchase the print book [The Works' Manager's Hand-book of Modern Rules, Tables, and Data for Civil and Mechanical Engineers, Millwrights, and Boiler Makers; Tool](#)

Makers, Machinists, and Metal Workers; Iron and Brass Founders, Etc., Etc Walter S. Hutton,1901

Python for Programmers Paul Deitel,Harvey Deitel,2019-03-15 The professional programmer s Deitel guide to Python with introductory artificial intelligence case studies Written for programmers with a background in another high level language Python for Programmers uses hands on instruction to teach today s most compelling leading edge computing technologies and programming in Python one of the world s most popular and fastest growing languages Please read the Table of Contents diagram inside the front cover and the Preface for more details In the context of 500 real world examples ranging from individual snippets to 40 large scripts and full implementation case studies you ll use the interactive IPython interpreter with code in Jupyter Notebooks to quickly master the latest Python coding idioms After covering Python Chapters 1 5 and a few key parts of Chapters 6 7 you ll be able to handle significant portions of the hands on introductory AI case studies in Chapters 11 16 which are loaded with cool powerful contemporary examples These include natural language processing data mining Twitter for sentiment analysis cognitive computing with IBM Watson™ supervised machine learning with classification and regression unsupervised machine learning with clustering computer vision through deep learning and convolutional neural networks deep learning with recurrent neural networks big data with Hadoop Spark™ and NoSQL databases the Internet of Things and more You ll also work directly or indirectly with cloud based services including Twitter Google Translate™ IBM Watson Microsoft Azure OpenMapQuest PubNub and more Features 500 hands on real world live code examples from snippets to case studies IPython code in Jupyter Notebooks Library focused Uses Python Standard Library and data science libraries to accomplish significant tasks with minimal code Rich Python coverage Control statements functions strings files JSON serialization CSV exceptions Procedural functional style and object oriented programming Collections Lists tuples dictionaries sets NumPy arrays pandas Series DataFrames Static dynamic and interactive visualizations Data experiences with real world datasets and data sources Intro to Data Science sections AI basic stats simulation animation random variables data wrangling regression AI big data and cloud data science case studies NLP data mining Twitter IBM Watson™ machine learning deep learning computer vision Hadoop Spark™ NoSQL IoT Open source libraries NumPy pandas Matplotlib Seaborn Folium SciPy NLTK TextBlob spaCy Textatistic Tweepy scikit learn Keras and more Accompanying code examples are available here [http://ptgmedia.pearsoncmg.com/imprint\\_downloads/informit/bookreg/9780135224335\\_9780135224335\\_examples.zip](http://ptgmedia.pearsoncmg.com/imprint_downloads/informit/bookreg/9780135224335_9780135224335_examples.zip) Register your product for convenient access to downloads updates and or corrections as they become available See inside book for more information

**Business Data Science: Combining Machine Learning and Economics to Optimize, Automate, and Accelerate Business Decisions** Matt Taddy,2019-08-23 Use machine learning to understand your customers frame decisions and drive value The business analytics world has changed and Data Scientists are taking over Business Data Science takes you through the steps of using machine learning to implement best in class business data science Whether you are a business leader with a desire to go

deep on data or an engineer who wants to learn how to apply Machine Learning to business problems you ll find the information insight and tools you need to flourish in today s data driven economy You ll learn how to Use the key building blocks of Machine Learning sparse regularization out of sample validation and latent factor and topic modeling Understand how use ML tools in real world business problems where causation matters more that correlation Solve data science programs by scripting in the R programming language Today s business landscape is driven by data and constantly shifting Companies live and die on their ability to make and implement the right decisions quickly and effectively Business Data Science is about doing data science right It s about the exciting things being done around Big Data to run a flourishing business It s about the precepts principals and best practices that you need know for best in class business data science

**The Agricultural Gazette and Modern Farming** ,1896 *Library & Information Science Abstracts* ,2008 Free  
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*General Science Quarterly* ,1926 **Book Notes Illustrated** ,1924 **The Shepherd's Journal** William James  
Clarke,1915 **The Publishers Weekly** ,1925 *Among Our Books* Carnegie Library of Pittsburgh,1903

The book delves into Data Science Live Book. Data Science Live Book is a vital topic that needs to be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Data Science Live Book, encompassing both the fundamentals and more intricate discussions.

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- Chapter 2: Essential Elements of Data Science Live Book
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- Chapter 4: Data Science Live Book in Specific Contexts
- Chapter 5: Conclusion

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5. In chapter 4, this book will scrutinize the relevance of Data Science Live Book in specific contexts. The fourth chapter will explore how Data Science Live Book is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, this book will draw a conclusion about Data Science Live Book. The final chapter will summarize the key points that have been discussed throughout the book.

The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Data Science Live Book.

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