

# [PDF] Data Science From Scratch: First Principles With Python

Joel Grus - pdf download free book

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Data Science from Scratch

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. In this book, you'll learn how many of the most fundamental data science tools and algorithms work by engineering 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 the skills you need to get started as a data scientist. Topics to bring you a lot of data with answers to questions no one's even thought to ask. This book provides you with the know-how to bring your answers to life.

- Get a crash course in Python
- Learn the basics of linear algebra, statistics, and probability—and understand how and when they're used in data science
- Collect, explore, clean, merge, and manipulate data
- Dive into the fundamentals of machine learning
- Implement models such as k nearest neighbors, Naive Bayes, linear and logistic regression, decision trees, neural networks, and clustering
- Explore recommender systems, natural language processing, network analysis, MapReduce, and databases

Joel Grus is a software engineer at Google. Before that, he worked as a data scientist at multiple startups, the likes of Twitter, where he regularly attended data science talks by the "hugely influential" programmers and founders all day long at Googleplex.

Joel takes you on a journey from being data-curious to getting a thorough understanding of the broad and but not algorithmic data science that every data scientist should know.

—Mike Koppelman  
DataCamp, Inc.  
@mikekoppelman

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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.

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