Practical Data Science Cookbook - Real-World Data Science Projects to Help You Get Your Hands On Your Data

By Tony Ojeda, Sean Patrick Murphy, Benjamin Bengfort, Abhijit Dasgupta

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Key Features

- Learn how to tackle every step in the data science pipeline and use it to acquire, clean, analyze, and visualize data
- Get beyond the theory with real-world projects
- Expand your numerical programming skills through step-by-step code examples and learn more about the robust features of R and Python

Book Description

Data's value has grown exponentially in the past decade, with 'Big Data' today being one of the biggest buzzwords in business and IT, and data scientist hailed as 'the sexiest job of the 21st century'. Practical Data Science Cookbook helps you see beyond the hype and get past the theory by providing you with a hands-on exploration of data science. With a comprehensive range of recipes designed to help you learn fundamental data science tasks, you'll uncover practical steps to help you produce powerful insights into Big Data using R and Python.

Use this valuable data science book to discover tricks and techniques to get to grips with your data. Learn effective data visualization with an automobile fuel efficiency data project, analyze football statistics, learn how to create data simulations, and get to grips with stock market data to learn data modelling. Find out how to produce sharp insights into social media data by following data science tutorials that demonstrate the best ways to tackle Twitter data, and uncover recipes that will help you dive in and explore Big Data through movie recommendation databases.

Practical Data Science Cookbook is your essential companion to the real-world challenges of working with data, created to give you a deeper insight into a world of Big Data that promises to keep growing.

What you will learn

- Follow the recipes in this essential data science cookbook to learn the fundamentals of data science and data analysis
- Put theory into practice with a selection of real-world Big Data projects
- Learn the data science pipeline and successfully structure your data science project
- Find out how to clean, munge, and manipulate data
- Learn different approaches to data modelling and how to determine the most appropriate for your data
- Learn numerical computing with NumPy and SciPy

About the Authors

Tony Ojeda is the founder of District Data Labs, a cofounder of Data Community DC, and is actively involved in promoting data science education through both organizations.

Sean Patrick Murphy spent 15 years as a senior scientist at The Johns Hopkins University Applied Physics Laboratory, where he focused on machine learning, modeling and simulation, signal processing, and high performance computing in the Cloud. Now, he acts as an advisor and data consultant for companies in SF, NY, and DC.

Benjamin Bengfort has worked in military, industry, and academia for the past 8 years. He is currently pursuing his PhD in Computer Science at the University of Maryland, College Park, researching Metacognition and Natural Language Processing.

Abhijit Dasgupta is a data consultant working in the greater DC-Maryland-Virginia area, with several years of experience in biomedical consulting, business analytics, bioinformatics, and bioengineering consulting.

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Editorial Review

About the Author

Tony Ojeda

Tony Ojeda is an accomplished data scientist and entrepreneur, with expertise in business process optimization and over a decade of experience creating and implementing innovative data products and solutions. He has a Master's degree in Finance from Florida International University and an MBA with concentrations in Strategy and Entrepreneurship from DePaul University. He is the founder of District Data Labs, a cofounder of Data Community DC, and is actively involved in promoting data science education through both organizations.

Sean Patrick Murphy

Sean Patrick Murphy spent 15 years as a senior scientist at The Johns Hopkins University Applied Physics Laboratory, where he focused on machine learning, modeling and simulation, signal processing, and high performance computing in the Cloud. Now, he acts as an advisor and data consultant for companies in SF, NY, and DC. He completed his graduation from The Johns Hopkins University and his MBA from the University of Oxford. He currently co-organizes the Data Innovation DC meetup and cofounded the Data Science MD meetup. He is also a board member and cofounder of Data Community DC.

Benjamin Bengfort

Benjamin Bengfort is an experienced data scientist and Python developer who has worked in military, industry, and academia for the past 8 years. He is currently pursuing his PhD in Computer Science at the University of Maryland, College Park, doing research in Metacognition and Natural Language Processing. He holds a Master's degree in Computer Science from North Dakota State University, where he taught undergraduate Computer Science courses. He is also an adjunct faculty member at Georgetown University, where he teaches Data Science and Analytics. Benjamin has been involved in two data science start-ups in the DC region: leveraging large-scale machine learning and Big Data techniques across a variety of applications. He has a deep appreciation for the combination of models and data for entrepreneurial effect, and he is currently building one of these start-ups into a more mature organization.

Abhijit Dasgupta

Abhijit Dasgupta is a data consultant working in the greater DC-Maryland-Virginia area, with several years

of experience in biomedical consulting, business analytics, bioinformatics, and bioengineering consulting. He has a PhD in Biostatistics from the University of Washington and over 40 collaborative peer-reviewed manuscripts, with strong interests in bridging the statistics/machine-learning divide. He is always on the lookout for interesting and challenging projects, and is an enthusiastic speaker and discussant on new and better ways to look at and analyze data. He is a member of Data Community DC and a founding member and co-organizer of Statistical Programming DC (formerly, R Users DC).

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