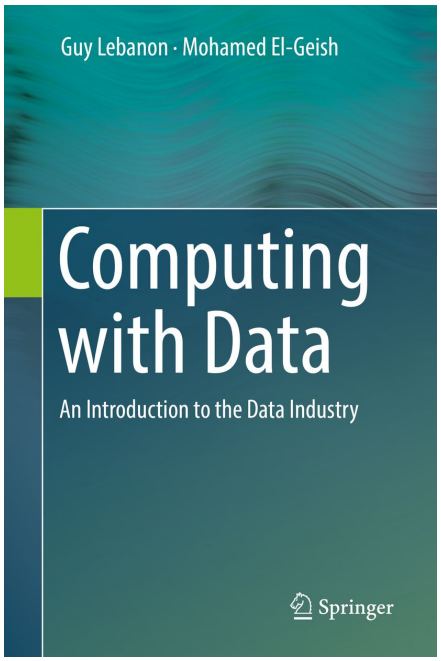

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Guy Lebanon, Mohamed El-Geish

Computing with Data

An Introduction to the Data Industry

- Links to an online, user-friendly website to edit and run the book's plethora of code examples
- Presents principles that can be employed in applications ranging from software simulations to real-world web applications that serve millions of users
- Explains prevalent programming languages and data processing systems that are commonly used to address engineering challenges
- Introduces programmers to data science concepts and practices through new apparatuses such as R programming and data processing techniques
- Explores new tools and libraries to use in big data projects

This book introduces basic computing skills designed for industry professionals without a strong computer science background. Written in an easily accessible manner, and accompanied by a user-friendly website, it serves as a self-study guide to survey data science and data engineering for those who aspire to start a computing career, or expand on their current roles, in areas such as applied statistics, big data, machine learning, data mining, and informatics. The authors draw from their combined experience working at software and social network companies, on big data products at several major online retailers, as well as their experience building big data systems for an AI startup. Spanning from the basic inner workings of a computer to advanced data manipulation techniques, this book opens doors for readers to quickly explore and enhance their computing knowledge. Computing with Data comprises a wide range of computational topics essential for data scientists, analysts, and engineers, providing them with the necessary tools to be successful in any role that involves computing with data. The introduction is self-contained, and chapters progress from basic hardware concepts to operating systems, programming languages, graphing and processing data, testing and programming tools, big data frameworks, and cloud computing. The book is fashioned with several audiences in mind.