



Java for Data Science

Richard Reese, Jennifer Reese

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Key Features

- Your entry ticket to the world of data science with the stability and power of Java
- Explore, analyse, and visualize your data effectively using easy-to-follow examples
- Make your Java applications more capable using machine learning

Book Description

Data science is concerned with extracting knowledge and insights from a wide variety of data sources to analyse patterns or predict future behaviour. It draws from a wide array of disciplines including statistics, computer science, mathematics, machine learning, and data mining. In this book, we cover the important data science concepts and how they are supported by Java, as well as the often statistically challenging techniques, to provide you with an understanding of their purpose and application.

The book starts with an introduction of data science, followed by the basic data science tasks of data collection, data cleaning, data analysis, and data visualization. This is followed by a discussion of statistical techniques and more advanced topics including machine learning, neural networks, and deep learning. The next section examines the major categories of data analysis including text, visual, and audio data, followed by a discussion of resources that support parallel implementation.

The final chapter illustrates an in-depth data science problem and provides a comprehensive, Java-based solution. Due to the nature of the topic, simple examples of techniques are presented early followed by a more detailed treatment later in the book. This permits a more natural introduction to the techniques and concepts presented in the book.

What you will learn

- Understand the nature and key concepts used in the field of data science
- Grasp how data is collected, cleaned, and processed
- Become comfortable with key data analysis techniques
- See specialized analysis techniques centered on machine learning
- Master the effective visualization of your data
- Work with the Java APIs and techniques used to perform data analysis

About the Author

Richard Reese has written several Java and C books and brings a concise and easy-to-follow approach to topics at hand. He currently teaches at Tarleton State University where he is able to apply years of industry experience to enhance his classes.

Books by Richard: <http://goo.gl/xKReI0>

Jennifer Reese previously <http://goo.gl/xKReI0> co-authored Java 7 New Features Cookbook. After working for several years as a software engineer, she currently teaches computer science to high school students. Her

interests include computer science education and computational thinking, artificial intelligence, and data science.

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