Machine Learning in Java

By Bostjan Kaluza

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Design, build, and deploy your own machine learning applications by leveraging key Java machine learning libraries

About This Book

- Develop a sound strategy to solve predictive modelling problems using the most popular machine learning Java libraries
- Explore a broad variety of data processing, machine learning, and natural language processing through diagrams, source code, and real-world applications
- Packed with practical advice and tips to help you get to grips with applied machine learning

Who This Book Is For

If you want to learn how to use Java's machine learning libraries to gain insight from your data, this book is for you. It will get you up and running quickly and provide you with the skills you need to successfully create, customize, and deploy machine learning applications in real life. You should be familiar with Java programming and data mining concepts to make the most of this book, but no prior experience with data mining packages is necessary.

What You Will Learn

- Understand the basic steps of applied machine learning and how to differentiate among various machine learning approaches
- Discover key Java machine learning libraries, what each library brings to the table, and what kind of problems each are able to solve
- Learn how to implement classification, regression, and clustering
- Develop a sustainable strategy for customer retention by predicting likely churn candidates
- Build a scalable recommendation engine with Apache Mahout
- Apply machine learning to fraud, anomaly, and outlier detection
- Experiment with deep learning concepts, algorithms, and the toolbox for deep

learning

- Write your own activity recognition model for eHealth applications using mobile sensors

In Detail

As the amount of data continues to grow at an almost incomprehensible rate, being able to understand and process data is becoming a key differentiator for competitive organizations. Machine learning applications are everywhere, from self-driving cars, spam detection, document search, and trading strategies, to speech recognition. This makes machine learning well-suited to the present-day era of Big Data and Data Science. The main challenge is how to transform data into actionable knowledge.

Machine Learning in Java will provide you with the techniques and tools you need to quickly gain insight from complex data. You will start by learning how to apply machine learning methods to a variety of common tasks including classification, prediction, forecasting, market basket analysis, and clustering.

Moving on, you will discover how to detect anomalies and fraud, and ways to perform activity recognition, image recognition, and text analysis. By the end of the book, you will explore related web resources and technologies that will help you take your learning to the next level.

By applying the most effective machine learning methods to real-world problems, you will gain hands-on experience that will transform the way you think about data.

Style and approach

This is a practical tutorial that uses hands-on examples to step through some real-world applications of machine learning. Without shying away from the technical details, you will explore machine learning with Java libraries using clear and practical examples. You will explore how to prepare data for analysis, choose a machine learning method, and measure the success of the process.

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Editorial Review

About the Author

Bostjan Kaluza

Bostjan Kaluza, PhD, is a researcher in artificial intelligence and machine learning. Bostjan is the chief data scientist at Evolven, a leading IT operations analytics company, focusing on configuration and change management. He works with machine learning, predictive analytics, pattern mining, and anomaly detection to turn data into understandable relevant information and actionable insight. Prior to Evolven, Bostjan served as a senior researcher in the department of intelligent systems at the Jozef Stefan Institute, a leading Slovenian scientific research institution, and led research projects involving pattern and anomaly detection, ubiquitous computing, and multi-agent systems. Bostjan was also a visiting researcher at the University of Southern California, where he studied suspicious and anomalous agent behavior in the context of security applications. Bostjan has extensive experience in Java and Python, and he also lectures on Weka in the classroom. Focusing on machine learning and data science, Bostjan has published numerous articles in professional journals, delivered conference papers, and authored or contributed to a number of patents. In 2013, Bostjan published his first book on data science, Instant Weka How-to, Packt Publishing, exploring how to leverage machine learning using Weka. Learn more about him at http://bostjankaluza.net.

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