



Mastering Java Machine Learning

By Dr. Uday Kamath, Krishna Choppella

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Become an advanced practitioner with this progressive set of master classes on application-oriented machine learning

About This Book

- Comprehensive coverage of key topics in machine learning with an emphasis on both the theoretical and practical aspects
- More than 15 open source Java tools in a wide range of techniques, with code and practical usage.
- More than 10 real-world case studies in machine learning highlighting techniques ranging from data ingestion up to analyzing the results of experiments, all preparing the user for the practical, real-world use of tools and data analysis.

Who This Book Is For

This book will appeal to anyone with a serious interest in topics in Data Science or those already working in related areas: ideally, intermediate-level data analysts and data scientists with experience in Java. Preferably, you will have experience with the fundamentals of machine learning and now have a desire to explore the area further, are up to grappling with the mathematical complexities of its algorithms, and you wish to learn the complete ins and outs of practical machine learning.

What You Will Learn

- Master key Java machine learning libraries, and what kind of problem each can solve, with theory and practical guidance.
- Explore powerful techniques in each major category of machine learning such as classification, clustering, anomaly detection, graph modeling, and text mining.
- Apply machine learning to real-world data with methodologies, processes, applications, and analysis.
- Techniques and experiments developed around the latest specializations in

machine learning, such as deep learning, stream data mining, and active and semi-supervised learning.

- Build high-performing, real-time, adaptive predictive models for batch- and stream-based big data learning using the latest tools and methodologies.
- Get a deeper understanding of technologies leading towards a more powerful AI applicable in various domains such as Security, Financial Crime, Internet of Things, social networking, and so on.

In Detail

Java is one of the main languages used by practicing data scientists; much of the Hadoop ecosystem is Java-based, and it is certainly the language that most production systems in Data Science are written in. If you know Java, Mastering Machine Learning with Java is your next step on the path to becoming an advanced practitioner in Data Science.

This book aims to introduce you to an array of advanced techniques in machine learning, including classification, clustering, anomaly detection, stream learning, active learning, semi-supervised learning, probabilistic graph modeling, text mining, deep learning, and big data batch and stream machine learning. Accompanying each chapter are illustrative examples and real-world case studies that show how to apply the newly learned techniques using sound methodologies and the best Java-based tools available today.

On completing this book, you will have an understanding of the tools and techniques for building powerful machine learning models to solve data science problems in just about any domain.

Style and approach

A practical guide to help you explore machine learning—and an array of Java-based tools and frameworks—with the help of practical examples and real-world use cases.

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Editorial Review

About the Author

Dr. Uday Kamath is the chief data scientist at BAE Systems Applied Intelligence. He specializes in scalable machine learning and has spent 20 years in the domain of AML, fraud detection in financial crime, cyber security, and bioinformatics, to name a few. Dr. Kamath is responsible for key products in areas focusing on the behavioral, social networking and big data machine learning aspects of analytics at BAE AI. He received his PhD at George Mason University, under the able guidance of Dr. Kenneth De Jong, where his dissertation research focused on machine learning for big data and automated sequence mining.

Krishna Choppella builds tools and client solutions in his role as a solutions architect for analytics at BAE Systems Applied Intelligence. He has been programming in Java for 20 years. His interests are data science, functional programming, and distributed computing.

Users Review

From reader reviews:

Jeffrey Brill:

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Shelia Sepulveda:

The reason? Because this Mastering Java Machine Learning is an unordinary book that the inside of the guide waiting for you to snap that but latter it will surprise you with the secret that inside. Reading this book close to it was fantastic author who else write the book in such incredible way makes the content inside of easier to understand, entertaining technique but still convey the meaning entirely. So , it is good for you for not hesitating having this nowadays or you going to regret it. This unique book will give you a lot of advantages than the other book possess such as help improving your expertise and your critical thinking technique. So , still want to hesitate having that book? If I were you I will go to the publication store hurriedly.

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