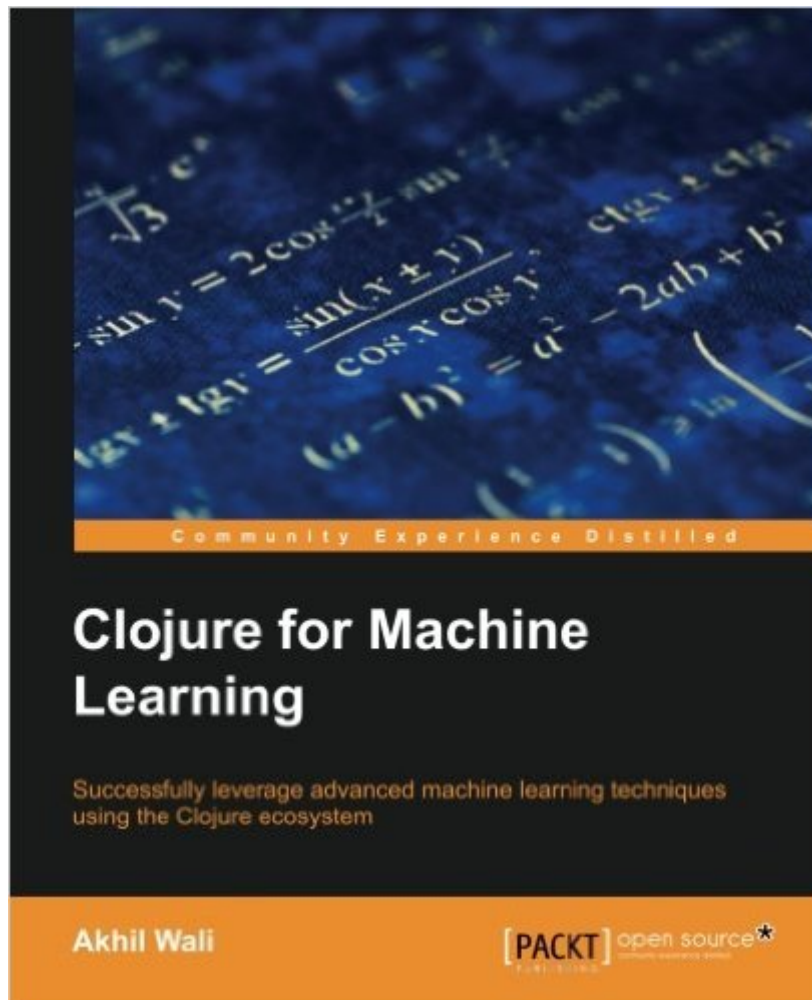


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# Clojure For Machine Learning



## Synopsis

Successfully leverage advanced machine learning techniques using the Clojure ecosystem

About This Book Covers a lot of machine learning techniques with Clojure programming. Encompasses precise patterns in data to predict future outcomes using various machine learning techniques

Packed with several machine learning libraries available in the Clojure ecosystem

Who This Book Is For If you are a Clojure developer who wants to explore the area of machine learning, this book is for you. Basic understanding of the Clojure programming language is required. Familiarity with theoretical concepts and notation of mathematics and statistics would be an added advantage.

What You Will Learn

- Build systems that use machine learning techniques in Clojure
- Understand machine learning problems such as regression, classification, and clustering
- Discover the data structures used in machine learning techniques such as artificial neural networks and support vector machines
- Implement machine learning algorithms in Clojure
- Learn more about Clojure libraries to build machine learning systems
- Discover techniques to improve and debug solutions built on machine learning techniques
- Use machine learning techniques in a cloud architecture for the modern Web

In Detail Clojure for Machine Learning is an introduction to machine learning techniques and algorithms. This book demonstrates how you can apply these techniques to real-world problems using the Clojure programming language. It explores many machine learning techniques and also describes how to use Clojure to build machine learning systems. This book starts off by introducing the simple machine learning problems of regression and classification. It also describes how you can implement these machine learning techniques in Clojure. The book also demonstrates several Clojure libraries, which can be useful in solving machine learning problems. Clojure for Machine Learning familiarizes you with several pragmatic machine learning techniques. By the end of this book, you will be fully aware of the Clojure libraries that can be used to solve a given machine learning problem.

## Book Information

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## Customer Reviews

Clojure for Machine learning, together with Clojure Data Analysis Cookbook, are two compelling books for people interested in data mining and reasoning. It is also worth mentioning that the amount of publications not dedicated to Clojure itself but how to effectively use it in real world problems is growing. Therefore Clojure for Machine Learning is not a suitable book for newcomers to the language. It will probably not be a good starting point for people completely new to machine learning as well. However basic Clojure knowledge and rough understanding of core concepts in machine learning will be enough to enjoy this book. Book goes through pretty much all standard machine learning topics, including: linear regression, various classification algorithms, clustering, artificial neural networks and support vector machines. Author also briefly covers large scale machine learning on top of Hadoop and Map Reduce. Too bad other more modern BigData solutions were not represented. This book starts with a brief introduction to matrices and linear algebra. Not being an expert in the field I spotted few embarrassing mistakes. E.g. "For matrix A of size  $m \times n$  and B of size  $p \times q$  [...] if  $n = p$ , the product of A and B is a new matrix of size  $n \times q$ " - in this notation the size of A times B is  $m \times q$ , not  $n \times q$ . Few pages later formula for calculating inversion of  $2 \times 2$  matrix is broken (incorrectly transposed). For a book filled with math I would expect reviewers or proof readers to double check easily available formulas. Please keep in mind that Clojure for Machine learning is not a best choice to learn Clojure, it expects you to know basic constructs. Moreover Clojure code was not always perfectly idiomatic.

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