Mastering .NET Machine Learning

Jamie Dixon

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About This Book

- Based on .NET framework 4.6.1, includes examples on ASP.NET Core 1.0
- Set up your business application to start using machine learning techniques
- Familiarize the user with some of the more common .NET libraries for machine learning
- Implement several common machine learning techniques
- Evaluate, optimize and adjust machine learning models

Who This Book Is For

This book is targeted at .NET developers who want to build complex machine learning systems. Some basic understanding of data science is required.

What You Will Learn

- Write your own machine learning applications and experiments using the latest .NET Framework, including .NET Core 1.0
- Set up your business application to start using machine learning
- Accurately predict the future of your data using simple, multiple, and logistic regressions
- Discover hidden patterns using decision trees
- Acquire, prepare, and combine datasets to drive insights
- Optimize business throughput using Bayes Classifier
- Discover (more) hidden patterns using k-NN and Naive Bayes
- Discover (even more) hidden patterns using k-means and PCA
- Use Neural Networks to improve business decision making while using the latest ASP.NET technologies

In Detail

.NET is one of the widely used platforms for developing applications. With the meteoric rise of machine learning, developers are now keen on finding out how to make their .NET applications smarter using machine learning.

Mastering .NET Machine Learning is packed with real-world examples to explain how to easily use machine learning techniques in your business applications. You will begin with an introduction to F# and prepare yourselves for machine learning using the .NET Framework. You will then learn how to write a simple linear regression model and, forming a base with the regression model, you will start using machine learning libraries available in .NET Framework such as Math.NET, numl, and Accord.NET with examples. Next, you are going to take a deep dive into obtaining, cleaning, and organizing your data. You will learn the implementation of k-means and PCA using Accord.NET and numl libraries. You will be using Neural Networks, AzureML, and Accord.NET to transform your application into a hybrid scientific application. You will also see how to deal with very large datasets using MBrace and deploy machine learning models to IoT

devices so that the machine can learn and adapt on the fly.

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Enrique McLean:

Are you kind of stressful person, only have 10 or maybe 15 minute in your moment to upgrading your mind ability or thinking skill perhaps analytical thinking? Then you have problem with the book in comparison with can satisfy your small amount of time to read it because this all time you only find book that need more time to be read. Mastering .NET Machine Learning can be your answer given it can be read by a person who have those short spare time problems.

James Goldman:

In this era globalization it is important to someone to receive information. The information will make someone to understand the condition of the world. The fitness of the world makes the information simpler to share. You can find a lot of referrals to get information example: internet, magazine, book, and soon. You can see that now, a lot of publisher that will print many kinds of book. The actual book that recommended for you is Mastering .NET Machine Learning this guide consist a lot of the information from the condition of this world now. This book was represented how can the world has grown up. The dialect styles that writer value to explain it is easy to understand. The actual writer made some analysis when he makes this book. This is why this book suitable all of you.

Charles Stubblefield:

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Alfred Gates:

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