Alexis Perrier

Effective Amazon Machine Learning

Machine learning in the cloud

Packt

Effective Amazon Machine Learning

Predictive analytics is a complex domain requiring coding skills, an understanding of the mathematical concepts underpinning machine learning algorithms, and the ability to create compelling data visualizations. Following AWS simplifying Machine learning, this book will help you bring predictive analytics projects to fruition in three easy steps: data preparation, model tuning, and model selection.

This book will introduce you to the Amazon Machine Learning platform and will implement core data science concepts such as classification, regression, regularization, overfitting, model selection, and evaluation. Furthermore, you will learn to leverage the Amazon Web Service (AWS) ecosystem for extended access to data sources, implement real-time predictions, and run Amazon Machine Learning projects via the command line and the Python SDK.

Towards the end of the book, you will also learn how to apply these services to other problems, such as text mining, and to more complex datasets.

Things you will learn:

- Learn how to use the Amazon Machine Learning service from scratch for predictive analytics
- Gain hands-on experience of key Data Science concepts
- Solve classic regression and classification problems
- Run projects programmatically via the command line and the Python SDK
- Leverage the Amazon Web Service ecosystem to access extended data sources
- Implement streaming and advanced projects

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About the Author

Alexis Perrier is a data scientist at Docent Health, a Boston-based startup. He works with Machine Learning and Natural Language Processing to improve patient experience in healthcare. Fascinated by the power of stochastic algorithms, he is actively involved in the data science community as an instructor, blogger, and presenter. He holds a Ph.D. in Signal Processing from Telecom ParisTech and resides in Boston, MA.
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About the Reviewer

Doug Ortiz is an independent consultant who has been architecting, developing, and integrating enterprise solutions throughout his whole career. Organizations that leverage his skillset have been able to rediscover and reuse their underutilized data via existing and emerging technologies, such as Microsoft BI Stack, Hadoop, NoSQL databases, SharePoint, .Net, and related toolsets and technologies.

He is the founder of Illustris, LLC, and can be reached at `dougortiz@illustris.org`.

Interesting aspects of his profession are listed here:

- Has experience integrating multiple platforms and products
- Helps organizations gain a deeper understanding of the value of their current investments in data and existing resources, turning them into useful sources of information
- Has improved, salvaged, and architected projects by utilizing unique and innovative techniques

His hobbies include yoga and scuba diving.

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This book is dedicated to the love of my life Janne and to our beautiful children Astrid, Léonard and Lucas.

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