Practical Machine Learning

By Sunila Gollapudi

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About This Book

- Fully-coded working examples using a wide range of machine learning libraries and tools, including Python, R, Julia, and Spark
- Comprehensive practical solutions taking you into the future of machine learning
- Go a step further and integrate your machine learning projects with Hadoop

Who This Book Is For

This book has been created for data scientists who want to see Machine learning in action and explore its real-world applications. Knowledge of programming (Python and R) and mathematics is advisable if you want to get started immediately.

What You Will Learn

- Implement a wide range of algorithms and techniques for tackling complex data
- Get to grips with some of the most powerful languages in data science, including R, Python, and Julia
- Harness the capabilities of Spark and Mahout used in conjunction with Hadoop to manage and process data successfully
- Apply the appropriate Machine learning technique to address a real-world problem
- Get acquainted with deep learning and find out how neural networks are being used at the cutting edge of Machine learning
- Explore the future of Machine learning and dive deeper into polyglot persistence, semantic data, and more

In Detail

This book explores an extensive range of Machine learning techniques, uncovering hidden tips and tricks for several types of data using practical real-world examples. While Machine learning can be highly theoretical, this book

offers a refreshing hands-on approach without losing sight of the underlying principles.

We will cover the leading data science languages, Python and R, and the underrated but powerful Julia, as well as a range of big data platforms including Spark, Hadoop, and Mahout. Practical Machine Learning is an essential resource for modern data scientists who want to get to grips with Machine learning's real-world application.

The book also explores cutting-edge advances in Machine learning, with worked examples and guidance on Deep learning and Reinforcement learning, providing you with practical demonstrations and samples that help take the theory–and mystery–out of even the most advanced Machine learning methodologies.

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Editorial Review

About the Author

Sunila Gollapudi

Sunila Gollapudi works as Vice President Technology with Broadridge Financial Solutions (India) Pvt. Ltd., a wholly owned subsidary of the US-based Broadridge Financial Solutions Inc. (BR). She has close to 14 years of rich hands-on experience in the IT services space. She currently runs the Architecture Center of Excellence from India and plays a key role in the big data and data science initiatives. Prior to joining Broadridge she held key positions at leading global organizations and specializes in Java, distributed architecture, big data technologies, advanced analytics, Machine learning, semantic technologies, and data integration tools. Sunila represents Broadridge in global technology leadership and innovation forums, the most recent being at IEEE for her work on semantic technologies and its role in business data lakes. Sunila's signature strength is her ability to stay connected with ever changing global technology landscape where new technologies mushroom rapidly, connect the dots and architect practical solutions for business delivery. A post graduate in computer science, her first publication was on Big Data Datawarehouse solution, Greenplum titled Getting Started with Greenplum for Big Data Analytics, Packt Publishing. She's a noted Indian classical dancer at both national and international levels, a painting artist, in addition to being a mother, and a wife.

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