Patrick R. Nicolas

Scala for Machine Learning

Second Edition

Data processing, ML algorithms, smart analytics, and more

Packt>

Scala For Machine Learning Nicolas Patrick R

Ryan J. Urbanowicz,Will N. Browne

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Scala for Machine Learning Patrick R. Nicolas,2017-09-26 Leverage Scala and Machine Learning to study and construct systems that can learn from data About This Book Explore a broad variety of data processing machine learning and genetic algorithms through diagrams mathematical formulation and updated source code in Scala Take your expertise in Scala programming to the next level by creating and customizing AI applications Experiment with different techniques and evaluate their benefits and limitations using real world applications in a tutorial style Who This Book Is For If you re a data scientist or a data analyst with a fundamental knowledge of Scala who wants to learn and implement various Machine learning techniques this book is for you All you need is a good understanding of the Scala programming language a basic knowledge of statistics a keen interest in Big Data processing and this book What You Will Learn Build dynamic workflows for scientific computing Leverage open source libraries to extract patterns from time series Write your own classification clustering or evolutionary algorithm Perform relative performance tuning and evaluation of Spark Master probabilistic models for sequential data Experiment with advanced techniques such as regularization and kernelization Dive into neural networks and some deep learning architecture Apply some basic multiarm bandit algorithms Solve big data problems with Scala parallel collections Akka actors and Apache Spark clusters Apply key learning strategies to a technical analysis of financial markets In Detail The discovery of information through data clustering and classification is becoming a key differentiator for competitive organizations Machine learning applications are everywhere from self driving cars engineering design logistics manufacturing and trading strategies to detection of genetic anomalies The book is your one stop guide that introduces you to the functional capabilities of the Scala programming language that are critical to the creation of machine learning algorithms such as dependency injection and implicits You start by learning data preprocessing and filtering techniques Following this you ll move on to unsupervised learning techniques such as clustering and dimension reduction followed by probabilistic graphical models such as Naive Bayes hidden Markov models and Monte Carlo inference Further it covers the discriminative algorithms such as linear logistic regression with regularization kernelization support vector machines neural networks and deep learning You ll move on to evolutionary computing multibandit algorithms and reinforcement learning Finally the book includes a comprehensive overview of parallel computing in Scala and Akka followed by a description of Apache Spark and its ML library With updated codes based on the latest version of Scala and comprehensive examples this book will ensure that you have more than just a solid fundamental knowledge in machine learning with Scala Style and approach This book is designed as a tutorial with hands on exercises using technical analysis of financial markets and corporate data The approach of each chapter is such that it allows you to understand key concepts easily   Scala:Applied Machine Learning Pascal Bugnion,Patrick R. Nicolas,Alex Kozlov,2017-02-23 Leverage the power of Scala and master the art of building improving and validating scalable machine learning and AI applications using Scala s

most advanced and finest features About This Book Build functional type safe routines to interact with relational and NoSQL databases with the help of the tutorials and examples provided Leverage your expertise in Scala programming to create and customize your own scalable machine learning algorithms Experiment with different techniques evaluate their benefits and limitations using real world financial applications Get to know the best practices to incorporate new Big Data machine learning in your data driven enterprise and gain future scalability and maintainability Who This Book Is For This Learning Path is for engineers and scientists who are familiar with Scala and want to learn how to create validate and apply machine learning algorithms It will also benefit software developers with a background in Scala programming who want to apply machine learning What You Will Learn Create Scala web applications that couple with JavaScript libraries such as D3 to create compelling interactive visualizations Deploy scalable parallel applications using Apache Spark loading data from HDFS or Hive Solve big data problems with Scala parallel collections Akka actors and Apache Spark clusters Apply key learning strategies to perform technical analysis of financial markets Understand the principles of supervised and unsupervised learning in machine learning Work with unstructured data and serialize it using Kryo Protobuf Avro and AvroParquet Construct reliable and robust data pipelines and manage data in a data driven enterprise Implement scalable model monitoring and alerts with Scala In Detail This Learning Path aims to put the entire world of machine learning with Scala in front of you Scala for Data Science the first module in this course is a tutorial guide that provides tutorials on some of the most common Scala libraries for data science allowing you to quickly get up to speed building data science and data engineering solutions The second course Scala for Machine Learning guides you through the process of building AI applications with diagrams formal mathematical notation source code snippets and useful tips A review of the Akka framework and Apache Spark clusters concludes the tutorial The next module Mastering Scala Machine Learning is the final step in this course It will take your knowledge to next level and help you use the knowledge to build advanced applications such as social media mining intelligent news portals and more After a quick refresher on functional programming concepts using REPL you will see some practical examples of setting up the development environment and tinkering with data We will then explore working with Spark and MLlib using k means and decision trees By the end of this course you will be a master at Scala machine learning and have enough expertise to be able to build complex machine learning projects using Scala This Learning Path combines some of the best that Packt has to offer in one complete curated package It includes content from the following Packt products Scala for Data Science Pascal Bugnion Scala for Machine Learning Patrick Nicolas Mastering Scala Machine Learning Alex Kozlov Style and approach A tutorial with complete examples this course will give you the tools to start building useful data engineering and data science solutions straightaway This course provides practical examples from the field on how to correctly tackle data analysis problems particularly for modern Big Data datasets *Scala: Guide for Data Science Professionals* Pascal Bugnion,Arun Manivannan,Patrick R. Nicolas,2017-02-24 Scala will be a valuable tool

to have on hand during your data science journey for everything from data cleaning to cutting edge machine learning About This Book Build data science and data engineering solutions with ease An in depth look at each stage of the data analysis process from reading and collecting data to distributed analytics Explore a broad variety of data processing machine learning and genetic algorithms through diagrams mathematical formulations and source code Who This Book Is For This learning path is perfect for those who are comfortable with Scala programming and now want to enter the field of data science Some knowledge of statistics is expected What You Will Learn Transfer and filter tabular data to extract features for machine learning Read clean transform and write data to both SQL and NoSQL databases Create Scala web applications that couple with JavaScript libraries such as D3 to create compelling interactive visualizations Load data from HDFS and HIVE with ease Run streaming and graph analytics in Spark for exploratory analysis Bundle and scale up Spark jobs by deploying them into a variety of cluster managers Build dynamic workflows for scientific computing Leverage open source libraries to extract patterns from time series Master probabilistic models for sequential data In Detail Scala is especially good for analyzing large sets of data as the scale of the task doesn t have any significant impact on performance Scala s powerful functional libraries can interact with databases and build scalable frameworks resulting in the creation of robust data pipelines The first module introduces you to Scala libraries to ingest store manipulate process and visualize data Using real world examples you will learn how to design scalable architecture to process and model data starting from simple concurrency constructs and progressing to actor systems and Apache Spark After this you will also learn how to build interactive visualizations with web frameworks Once you have become familiar with all the tasks involved in data science you will explore data analytics with Scala in the second module You ll see how Scala can be used to make sense of data through easy to follow recipes You will learn about Bokeh bindings for exploratory data analysis and quintessential machine learning with algorithms with Spark ML library You ll get a sufficient understanding of Spark streaming machine learning for streaming data and Spark graphX Armed with a firm understanding of data analysis you will be ready to explore the most cutting edge aspect of data science machine learning The final module teaches you the A to Z of machine learning with Scala You ll explore Scala for dependency injections and implicits which are used to write machine learning algorithms You ll also explore machine learning topics such as clustering dimentionality reduction Naive Bayes Regression models SVMs neural networks and more This learning path combines some of the best that Packt has to offer into one complete curated package It includes content from the following Packt products Scala for Data Science Pascal Bugnion Scala Data Analysis Cookbook Arun Manivannan Scala for Machine Learning Patrick R Nicolas Style and approach A complete package with all the information necessary to start building useful data engineering and data science solutions straight away It contains a diverse set of recipes that cover the full spectrum of interesting data analysis tasks and will help you revolutionize your data analysis skills using Scala **Scala for Data Science** Pascal Bugnion,2016-01-28 Leverage the power of Scala with different tools to build scalable robust data science

applications About This Book A complete guide for scalable data science solutions from data ingestion to data visualization Deploy horizontally scalable data processing pipelines and take advantage of web frameworks to build engaging visualizations Build functional type safe routines to interact with relational and NoSQL databases with the help of tutorials and examples provided Who This Book Is For If you are a Scala developer or data scientist or if you want to enter the field of data science then this book will give you all the tools you need to implement data science solutions What You Will Learn Transform and filter tabular data to extract features for machine learning Implement your own algorithms or take advantage of MLLib s extensive suite of models to build distributed machine learning pipelines Read transform and write data to both SQL and NoSQL databases in a functional manner Write robust routines to query web APIs Read data from web APIs such as the GitHub or Twitter API Use Scala to interact with MongoDB which offers high performance and helps to store large data sets with uncertain query requirements Create Scala web applications that couple with JavaScript libraries such as D3 to create compelling interactive visualizations Deploy scalable parallel applications using Apache Spark loading data from HDFS or Hive In Detail Scala is a multi paradigm programming language it supports both object oriented and functional programming and scripting language used to build applications for the JVM Languages such as R Python Java and so on are mostly used for data science It is particularly good at analyzing large sets of data without any significant impact on performance and thus Scala is being adopted by many developers and data scientists Data scientists might be aware that building applications that are truly scalable is hard Scala with its powerful functional libraries for interacting with databases and building scalable frameworks will give you the tools to construct robust data pipelines This book will introduce you to the libraries for ingesting storing manipulating processing and visualizing data in Scala Packed with real world examples and interesting data sets this book will teach you to ingest data from flat files and web APIs and store it in a SQL or NoSQL database It will show you how to design scalable architectures to process and modelling your data starting from simple concurrency constructs such as parallel collections and futures through to actor systems and Apache Spark As well as Scala s emphasis on functional structures and immutability you will learn how to use the right parallel construct for the job at hand minimizing development time without compromising scalability Finally you will learn how to build beautiful interactive visualizations using web frameworks This book gives tutorials on some of the most common Scala libraries for data science allowing you to quickly get up to speed with building data science and data engineering solutions Style and approach A tutorial with complete examples this book will give you the tools to start building useful data engineering and data science solutions straightaway *Scala Design Patterns* Ivan Nikolov,2018-04-09 Learn how to write efficient clean and reusable code with Scala Key Features Unleash the power of Scala and apply it in the real world to build scalable and robust applications Learn about using and implementing Creational Structural Behavioral and Functional design patterns in Scala Learn how to build scalable and extendable applications efficiently Book Description Design patterns make developers lives

easier by helping them write great software that is easy to maintain runs efficiently and is valuable to the company or people concerned You ll learn about the various features of Scala and will be able to apply well known industry proven design patterns in your work The book starts off by focusing on some of the most interesting and latest features of Scala while using practical real world examples We will be learning about IDE s and Aspect Oriented Programming We will be looking into different components in Scala We will also cover the popular Gang of Four design patterns and show you how to incorporate functional patterns effectively The book ends with a practical example that demonstrates how the presented material can be combined in real life applications You ll learn the necessary concepts to build enterprise grade applications By the end of this book you ll have enough knowledge and understanding to quickly assess problems and come up with elegant solutions What you will learn Immerse yourself in industry standard design patterns structural creational and behavioral to create extraordinary applications See the power of traits and their application in Scala Implement abstract and self types and build clean design patterns Build complex entity relationships using structural design patterns Create applications faster by applying functional design patterns Who this book is for If you want to increase your understanding of Scala and apply design patterns to real life application development then this book is for you Prior knowledge of Scala language is assumed expected

Learning Cascading Michael Covert,Victoria Loewengart,2015-05-29 This book is intended for software developers system architects and analysts big data project managers and data scientists who wish to deploy big data solutions using the Cascading framework You must have a basic understanding of the big data paradigm and should be familiar with Java development techniques   Introduction to Learning Classifier Systems Ryan J. Urbanowicz,Will N. Browne,2017-08-17 This accessible introduction shows the reader how to understand implement adapt and apply Learning Classifier Systems LCSs to interesting and difficult problems The text builds an understanding from basic ideas and concepts The authors first explore learning through environment interaction and then walk through the components of LCS that form this rule based evolutionary algorithm The applicability and adaptability of these methods is highlighted by providing descriptions of common methodological alternatives for different components that are suited to different types of problems from data mining to autonomous robotics The authors have also paired exercises and a simple educational LCS eLCS algorithm implemented in Python with this book It is suitable for courses or self study by advanced undergraduate and postgraduate students in subjects such as Computer Science Engineering Bioinformatics and Cybernetics and by researchers data analysts and machine learning practitioners   *Scala Machine Learning Projects* Md. Rezaul Karim,2018-01-31 Powerful smart applications using deep learning algorithms to dominate numerical computing deep learning and functional programming Key Features Explore machine learning techniques with prominent open source Scala libraries such as Spark ML H2O MXNet Zeppelin and DeepLearning4j Solve real world machine learning problems by delving complex numerical computing with Scala functional programming in a scalable and faster way Cover all key aspects such as collection storing processing

analyzing and evaluation required to build and deploy machine models on computing clusters using Scala Play framework Book Description Machine learning has had a huge impact on academia and industry by turning data into actionable information Scala has seen a steady rise in adoption over the past few years especially in the fields of data science and analytics This book is for data scientists data engineers and deep learning enthusiasts who have a background in complex numerical computing and want to know more hands on machine learning application development If you re well versed in machine learning concepts and want to expand your knowledge by delving into the practical implementation of these concepts using the power of Scala then this book is what you need Through 11 end to end projects you will be acquainted with popular machine learning libraries such as Spark ML H2O DeepLearning4j and MXNet At the end you will be able to use numerical computing and functional programming to carry out complex numerical tasks to develop build and deploy research or commercial projects in a production ready environment What you will learn Apply advanced regression techniques to boost the performance of predictive models Use different classification algorithms for business analytics Generate trading strategies for Bitcoin and stock trading using ensemble techniques Train Deep Neural Networks DNN using H2O and Spark ML Utilize NLP to build scalable machine learning models Learn how to apply reinforcement learning algorithms such as Q learning for developing ML application Learn how to use autoencoders to develop a fraud detection application Implement LSTM and CNN models using DeepLearning4j and MXNet Who this book is for If you want to leverage the power of both Scala and Spark to make sense of Big Data then this book is for you If you are well versed with machine learning concepts and wants to expand your knowledge by delving into the practical implementation using the power of Scala then this book is what you need Strong understanding of Scala Programming language is recommended Basic familiarity with machine Learning techniques will be more helpful **Scala: Guide for Data Science Professionals** Pascal Bugnion,2017 Scala Pascal Bugnion,Patrick R. Nicolas,Alex Kozlov,2016 Leverage the power of Scala and master the art of building improving and validating scalable machine learning and AI applications using Scala s most advanced and finest features About This Book Build functional type safe routines to interact with relational and NoSQL databases with the help of the tutorials and examples provided Leverage your expertise in Scala programming to create and customize your own scalable machine learning algorithms Experiment with different techniques evaluate their benefits and limitations using real world financial applications Get to know the best practices to incorporate new Big Data machine learning in your data driven enterprise and gain future scalability and maintainability Who This Book Is For This Learning Path is for engineers and scientists who are familiar with Scala and want to learn how to create validate and apply machine learning algorithms It will also benefit software developers with a background in Scala programming who want to apply machine learning What You Will Learn Create Scala web applications that couple with JavaScript libraries such as D3 to create compelling interactive visualizations Deploy scalable parallel applications using Apache Spark loading data from HDFS or Hive Solve big data problems with Scala

parallel collections Akka actors and Apache Spark clusters Apply key learning strategies to perform technical analysis of financial markets Understand the principles of supervised and unsupervised learning in machine learning Work with unstructured data and serialize it using Kryo Protobuf Avro and AvroParquet Construct reliable and robust data pipelines and manage data in a data driven enterprise Implement scalable model monitoring and alerts with Scala In Detail This Learning Path aims to put the entire world of machine learning with Scala in front of you Scala for Data Science the first module in this course is a tutorial guide that provides tutorials on some of the most common Scala libraries for data science allowing you to quickly get up to speed building data science and data engineering solutions The second course Scala for Machine Learning guides you through the process of building AI applications with diagrams formal mathematical notation source code snippets and useful tips A review of the Akka framework and Apache Spark clusters concludes the tutorial The next module Mastering Scala Machine Learning is the final step in this course It will take yo   *Forthcoming Books* Rose Arny,1996-06

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on real clusters in Standalone Mesos and YARN In Detail Scala has been observing wide adoption over the past few years especially in the field of data science and analytics Spark built on Scala has gained a lot of recognition and is being used widely in productions Thus if you want to leverage the power of Scala and Spark to make sense of big data this book is for you The first part introduces you to Scala helping you understand the object oriented and functional programming concepts needed for Spark application development It then moves on to Spark to cover the basic abstractions using RDD and DataFrame This will help you develop scalable and fault tolerant streaming applications by analyzing structured and unstructured data using SparkSQL GraphX and Spark structured streaming Finally the book moves on to some advanced topics such as monitoring configuration debugging testing and deployment You will also learn how to develop Spark applications using SparkR and PySpark APIs interactive data analytics using Zeppelin and in memory data processing with Alluxio By the end of this book you will have a thorough understanding of Spark and you will be able to perform full stack data analytics with a feel that no amount of data is too big Style and approach Filled with practical examples and use cases this book will hot only help you get up and running with Spark but will also take you farther down the road to becoming a data scientist

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