

coursera algebra

coursera algebra is a vital area of study for anyone looking to strengthen their mathematical skills and enhance their understanding of algebraic concepts. As a leading online learning platform, Coursera offers a plethora of courses tailored to various skill levels, from beginners to advanced learners. This article will delve into the offerings of Coursera related to algebra, exploring the benefits of online learning in mathematics, the course structures, key topics covered, and how they can enhance your knowledge and career prospects. Additionally, we will provide insights on how to choose the right course for your needs and highlight some frequently asked questions regarding Coursera algebra.

- Introduction to Coursera Algebra
- Benefits of Learning Algebra on Coursera
- Popular Coursera Algebra Courses
- Key Topics Covered in Algebra Courses
- How to Choose the Right Algebra Course
- Conclusion
- Frequently Asked Questions

Benefits of Learning Algebra on Coursera

Learning algebra through Coursera presents numerous advantages, especially for those who prefer flexible learning environments. First and foremost, Coursera provides access to courses created by esteemed universities and institutions, ensuring that the quality of education is top-notch. This platform allows students to study at their own pace, making it easier to balance education with personal and professional responsibilities.

Moreover, Coursera's interactive learning tools, such as quizzes, peer-reviewed assignments, and discussion forums, foster a more engaging educational experience. These features not only enhance understanding but also encourage collaboration among learners, creating a community of support. Additionally, many courses offer the option to earn certificates upon completion, which can enhance resumes and LinkedIn profiles, showcasing a commitment to professional development.

Popular Coursera Algebra Courses

Coursera hosts a variety of algebra courses that cater to different learning needs. Here are some of the most popular options:

- Algebra Specialization by the University of California, Irvine
- Introduction to Algebra by the University of Pennsylvania
- Pre-Algebra by the University of California, Davis
- Mathematics for Machine Learning: Linear Algebra by Imperial College London
- Algebra and Trigonometry by the University of California, Irvine

Each of these courses focuses on unique aspects of algebra, from foundational skills to advanced applications in technology and data science. They typically include video lectures, reading materials, and practical exercises to reinforce learning.

Key Topics Covered in Algebra Courses

Algebra courses on Coursera encompass a wide range of topics that are essential for mastering the subject. Some of the key areas include:

- Basic Algebraic Operations
- Linear Equations and Inequalities
- Polynomials and Factoring
- Functions and Graphs
- Systems of Equations
- Quadratic Equations
- Exponential and Logarithmic Functions

Understanding these topics not only builds a solid foundation in algebra but also prepares students for more advanced studies in mathematics and related fields. Each course typically breaks down these concepts into digestible modules, allowing learners to progress at a comfortable pace.

How to Choose the Right Algebra Course

Selecting the appropriate algebra course on Coursera can significantly impact your learning experience. Here are some factors to consider:

- **Skill Level:** Assess your current understanding of algebra. Beginners might opt for introductory courses, while those with some background can choose intermediate or advanced classes.
- **Course Content:** Review the syllabus to ensure the course covers topics that align with your learning goals.
- **Instructor Credentials:** Check the qualifications and teaching experience of the course instructors. Learning from experts can enhance the quality of education.
- **Duration and Flexibility:** Consider how much time you can dedicate to studying. Some courses offer more flexibility than others.
- **Peer Reviews and Ratings:** Look at feedback from previous students to gauge the effectiveness of the course.

Taking the time to evaluate these factors will help ensure that you choose a course that meets your needs and supports your educational journey.

Conclusion

In summary, Coursera algebra courses offer a diverse range of learning opportunities for students at all levels. With high-quality content provided by reputable institutions, engaging learning environments, and the flexibility of online education, learners can effectively enhance their algebra skills. By exploring popular courses, understanding key topics, and knowing how to choose the right course, individuals can position themselves for success in mathematics and beyond.

Frequently Asked Questions

Q: What is Coursera algebra?

A: Coursera algebra refers to the range of algebra courses available on the Coursera platform, designed to teach students various algebraic concepts and skills, from basic to advanced levels.

Q: Are Coursera algebra courses free?

A: Many courses on Coursera offer free access to course materials, but there may be a fee for obtaining a certificate upon completion. Some courses also provide financial aid options.

Q: How long does it take to complete a Coursera algebra course?

A: The duration of Coursera algebra courses varies. Some may be completed in a few weeks, while others might take several months, depending on the course structure and the learner's pace.

Q: Can I earn a certificate for completing a Coursera algebra course?

A: Yes, upon successful completion of many algebra courses on Coursera, learners can earn a certificate that can be shared on professional networks like LinkedIn.

Q: Are the algebra courses suitable for beginners?

A: Yes, Coursera offers algebra courses specifically designed for beginners, focusing on foundational concepts and skills.

Q: What topics are typically covered in algebra courses on Coursera?

A: Common topics include basic algebraic operations, linear equations, polynomials, functions, systems of equations, and quadratic equations.

Q: Do Coursera algebra courses require any prerequisites?

A: While some introductory courses may have no prerequisites, others might require a basic understanding of mathematics. It's essential to check the course details for specific requirements.

Q: Can I learn algebra at my own pace on Coursera?

A: Yes, Coursera's platform allows learners to progress through courses at their own pace, making it convenient for those with busy schedules.

Q: What if I have questions during the course?

A: Coursera courses often include discussion forums where students can ask questions and interact with peers and instructors for support.

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coursera algebra: *Hands-On Data Analysis with Pandas* Stefanie Molin, 2019-07-26 Get to grips with pandas—a versatile and high-performance Python library for data manipulation, analysis, and discovery Key FeaturesPerform efficient data analysis and manipulation tasks using pandasApply pandas to different real-world domains using step-by-step demonstrationsGet accustomed to using pandas as an effective data exploration toolBook Description Data analysis has become a necessary skill in a variety of positions where knowing how to work with data and extract insights can generate significant value. Hands-On Data Analysis with Pandas will show you how to analyze your data, get started with machine learning, and work effectively with Python libraries often used for data science, such as pandas, NumPy, matplotlib, seaborn, and scikit-learn. Using real-world datasets, you will learn how to use the powerful pandas library to perform data wrangling to reshape, clean, and aggregate your data. Then, you will learn how to conduct exploratory data analysis by calculating summary statistics and visualizing the data to find patterns. In the concluding chapters, you will explore some applications of anomaly detection, regression, clustering, and classification, using scikit-learn, to make predictions based on past data. By the end of this book, you will be equipped with the skills you need to use pandas to ensure the veracity of your data, visualize it for effective decision-making, and reliably reproduce analyses across multiple datasets. What you will learnUnderstand how data analysts and scientists gather and analyze dataPerform data analysis and data wrangling in PythonCombine, group, and aggregate data from multiple sourcesCreate data visualizations with pandas, matplotlib, and seabornApply machine learning (ML) algorithms to identify patterns and make predictionsUse Python data science libraries to analyze real-world datasetsUse pandas to solve common data representation and analysis problemsBuild Python scripts, modules, and packages for reusable analysis codeWho this book is for This book is for data analysts, data science beginners, and Python developers who want to explore each stage of data analysis and scientific computing using a wide range of datasets. You will also find this book useful if you are a data scientist who is looking to implement pandas in machine learning. Working knowledge of Python programming language will be beneficial.

coursera algebra: *Python Data Analysis Cookbook* Ivan Idris, 2016-07-22 Over 140 practical recipes to help you make sense of your data with ease and build production-ready data apps About This Book Analyze Big Data sets, create attractive visualizations, and manipulate and process various data types Packed with rich recipes to help you learn and explore amazing algorithms for statistics and machine learning Authored by Ivan Idris, expert in python programming and proud author of eight highly reviewed books Who This Book Is For This book teaches Python data analysis at an intermediate level with the goal of transforming you from journeyman to master. Basic Python

and data analysis skills and affinity are assumed. What You Will Learn Set up reproducible data analysis Clean and transform data Apply advanced statistical analysis Create attractive data visualizations Web scrape and work with databases, Hadoop, and Spark Analyze images and time series data Mine text and analyze social networks Use machine learning and evaluate the results Take advantage of parallelism and concurrency In Detail Data analysis is a rapidly evolving field and Python is a multi-paradigm programming language suitable for object-oriented application development and functional design patterns. As Python offers a range of tools and libraries for all purposes, it has slowly evolved as the primary language for data science, including topics on: data analysis, visualization, and machine learning. Python Data Analysis Cookbook focuses on reproducibility and creating production-ready systems. You will start with recipes that set the foundation for data analysis with libraries such as matplotlib, NumPy, and pandas. You will learn to create visualizations by choosing color maps and palettes then dive into statistical data analysis using distribution algorithms and correlations. You'll then help you find your way around different data and numerical problems, get to grips with Spark and HDFS, and then set up migration scripts for web mining. In this book, you will dive deeper into recipes on spectral analysis, smoothing, and bootstrapping methods. Moving on, you will learn to rank stocks and check market efficiency, then work with metrics and clusters. You will achieve parallelism to improve system performance by using multiple threads and speeding up your code. By the end of the book, you will be capable of handling various data analysis techniques in Python and devising solutions for problem scenarios. Style and Approach The book is written in "cookbook" style striving for high realism in data analysis. Through the recipe-based format, you can read each recipe separately as required and immediately apply the knowledge gained.

coursera algebra: Digital Solidarity in Education Mary T. Kolesinski, Evelyn Nelson-Weaver, Daryl Diamond, 2013-09-11 Digital Solidarity in Education is a book for educators, scholars, and students interested in better understanding both the role technology can play in schools and its potential for strengthening communities, optimizing the effects of globalization, and increasing educational access. The digital solidarity movement prioritizes the engagement and mobilization of students from diverse racial, ethnic, linguistic, and economic backgrounds, and with giftedness and/or disabilities, to utilize and apply technologies. This powerful book introduces innovative technological programs including virtual schools, e-tutoring, and interactive online communities for K-12 students that can: • increase students' knowledge and understanding of advanced concepts while reinforcing their basic skills; • reinforce students' communication in their first language while introducing second and third language possibilities; • nurture students' capabilities to think analytically, while using creative and innovative ideas to think simultaneously "outside of the box." The experienced author team shows how collaborative partners from the private sector can assist public school systems and educators in creating access for all students to technological innovations, with a goal of increasing individual opportunities for future college and career success. Combining theoretical scholarship and research with the personal perspectives of practitioners in the field, this volume shares with readers both the nuts and bolts of using technology in education, and the importance of doing so.

coursera algebra: Learning Online Barbara Means, Marianne Bakia, Robert Murphy, 2014-04-03 At a time when more and more of what people learn both in formal courses and in everyday life is mediated by technology, Learning Online provides a much-needed guide to different forms and applications of online learning. This book describes how online learning is being used in both K-12 and higher education settings as well as in learning outside of school. Particular online learning technologies, such as MOOCs (massive open online courses), multi-player games, learning analytics, and adaptive online practice environments, are described in terms of design principles, implementation, and contexts of use. Learning Online synthesizes research findings on the effectiveness of different types of online learning, but a major message of the book is that student outcomes arise from the joint influence of implementation, context, and learner characteristics interacting with technology--not from technology alone. The book describes available research about

how best to implement different forms of online learning for specific kinds of students, subject areas, and contexts. Building on available evidence regarding practices that make online and blended learning more effective in different contexts, Learning Online draws implications for institutional and state policies that would promote judicious uses of online learning and effective implementation models. This in-depth research work concludes with a call for an online learning implementation research agenda, combining education institutions and research partners in a collaborative effort to generate and share evidence on effective practices.

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coursera algebra: STEM Education for the 21st Century Bryan Edward Penprase, 2020-04-07 This book chronicles the revolution in STEM teaching and learning that has arisen from a convergence of educational research, emerging technologies, and innovative ways of structuring both the physical space and classroom activities in STEM higher education. Beginning with a

historical overview of US higher education and an overview of diversity in STEM in the US, the book sets a context in which our present-day innovation in science and technology urgently needs to provide more diversity and inclusion within STEM fields. Research-validated pedagogies using active learning and new types of research-based curriculum is transforming how physics, biology and other fields are taught in leading universities, and the book gives profiles of leading innovators in science education and examples of exciting new research-based courses taking root in US institutions. The book includes interviews with leading scientists and educators, case studies of new courses and new institutions, and descriptions of site visits where new trends in 21st STEM education are being developed. The book also takes the reader into innovative learning environments in engineering where students are empowered by emerging technologies to develop new creative capacity in their STEM education, through new centers for design thinking and liberal arts-based engineering. Equally innovative are new conceptual frameworks for course design and learning, and the book explores the concepts of Scientific Teaching, Backward Course Design, Threshold Concepts and Learning Taxonomies in a systematic way with examples from diverse scientific fields. Finally, the book takes the reader inside the leading centers for online education, including Udacity, Coursera and EdX, interviews the leaders and founders of MOOC technology, and gives a sense of how online education is evolving and what this means for STEM education. This book provides a broad and deep exploration into the historical context of science education and into some of the cutting-edge innovations that are reshaping how leading universities teach science and engineering. The emergence of exponentially advancing technologies such as synthetic biology, artificial intelligence and materials sciences has been described as the Fourth Industrial Revolution, and the book explores how these technologies will shape our future will bring a transformation of STEM curriculum that can help students solve many the most urgent problems facing our world and society.

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coursera algebra: MOOCs and Open Education Around the World Curtis J. Bonk, Mimi M. Lee, Thomas C. Reeves, Thomas H. Reynolds, 2015-06-12 As new digital forms of formal and informal learning proliferate, there is an increasing need to better understand how people in different regions of the world are implementing massive open online courses (MOOCs) and other forms of open educational resources (OERs). Educators, researchers, politicians, and numerous other stakeholders

want to grasp what the outcomes of these initiatives are and how they can be improved. Ongoing e-learning developments related to both technology and pedagogy have pushed institutions and organizations to grapple with issues of accreditation, credentialing, quality standards, innovative assessment, and learner motivation and attrition, among other areas of concern. In response, MOOCs and Open Education Around the World explores and illuminates unique implementations of MOOCs and open education across regions and nations. The book also focuses on the various opportunities as well as the dilemmas presented in this rapidly evolving age of technology-enabled learning. What are the different delivery formats, interaction possibilities, assessment schemes, and business models? What are the key controversies or issues that must be discussed and addressed? This edited collection explains MOOCs and open education trends and issues in a variety of contexts, shares key research findings, and provides practical suggestions and recommendations for the near future.

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coursera algebra: 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, dimensionality 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.

coursera algebra: Education 2.0 Leonard J. Waks, 2015-11-17 Thirty years of spirited school reforms have failed to improve our schools and instead have left our public school systems in disarray. Meanwhile, employment prospects for high school and college graduates are fading, and the public is losing faith in its schools. The education paradigm inherited from the Industrial Era is in crisis. In the last decade, however, the Internet and new Web 2.0 technologies have placed the entirety of human knowledge in the hands of everyone. What will our educational institutions make of this unprecedented flood of Web-based learning resources? How can schools be transformed to accommodate the new possibilities for personal and social learning? Leonard Waks gathers all the pieces of our current educational puzzle together in this groundbreaking book. Drawing on new organizational models grounded in complexity theory, Waks maps out an inspiring new paradigm for education in the Internet age, and connects all the dots in constructing detailed models for new schools-now transformed into open learning centers. Finally, Waks details action steps readers can take to speed this transformative process along in their own locations.

coursera algebra: Proceedings of the Third International Conference on Microelectronics, Computing and Communication Systems Vijay Nath, Jyotsna Kumar Mandal, 2019-05-23 The book presents high-quality papers from the Third International Conference on Microelectronics, Computing & Communication Systems (MCCS 2018). It discusses the latest technological trends and advances in MEMS and nanoelectronics, wireless communications, optical communication, instrumentation, signal processing, image processing, bioengineering, green energy, hybrid vehicles, environmental science, weather forecasting, cloud computing, renewable energy, RFID, CMOS sensors, actuators, transducers, telemetry systems, embedded systems, and sensor network applications. It includes papers based on original theoretical, practical and experimental simulations, development, applications, measurements, and testing. The applications and solutions discussed in the book provide excellent reference material for future product development.

coursera algebra: More than a Moment Steven D. Krause, 2020-01-02 As recently as 2012, massive open online courses (MOOCs) looked poised to revolutionize higher education, but in just a few years their flaws and problems have made them into a less relevant model. In *More than a Moment*, Steven D. Krause explores MOOCs and their continuing impact on distance learning in higher education, putting them in the context of technical innovations that have come before and those that will be part of the educational future. Krause writes about his own experiences as a participant in several MOOCs and the experiences of faculty who developed and taught MOOCs. Contrary to many early claims from educational entrepreneurs, they were never entirely “new,” and MOOCs and their aftermath are still at the heart of the tensions between nonprofit universities and

for-profit entities, particularly online program management firms, in delivering distance education. While MOOCs are no longer a threat to education in the United States, they are part of the ongoing corporatization of education and remain part of conversations about experienced-based credit, corporate training, and open education. Presenting historical, student, teacher, and administrative perspectives, *More than a Moment* is a well-rounded treatment that will be of interest to academics and entrepreneurs interested in distance education, online pedagogy, online program management, and public-private partnerships in higher education.

coursera algebra: *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.

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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.

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