

How to develop web apps with React, JSX, Redux, and GraphQL

React Quickly

AZAT MARDAN

Foreword by John Sonmez



SAMPLE CHAPTER



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Writers' & Artists' Yearbook 2017 Bloomsbury Publishing, 2016-07-28 This bestselling guide to all areas of publishing and the media is completely revised and updated every year The Yearbook is packed with advice inspiration and practical guidance on who to contact and how to get published New articles in the 2017 edition on Stronger together writers united by Maggie Gee Life writing telling other people s stories by Duncan Barrett co author of the Sunday Times bestseller GI Brides The how to of writing how to books by Kate Harrison author of the 5 2 Diet titles Self publishing Dos and Dont s by Alison Baverstock The Path to a bestseller by Clare Mackintosh author of the 2015 Let Me Go Getting your lucky break by Claire McGowan Getting your poetry out there by Neil Astley MD and Editor at Bloodaxe Books Selling yourself and your work online by Fig Taylor Then and now becoming a science fiction and fantasy writer Aliette de Bodard Writing spy fiction Mick Herron Making waves online Simon Appleby All articles are reviewed and updated every year Key articles on Copyright Law Tax Publishing Agreements E publishing Publishing news and trends are fully updated every year Plus over 4 000 listings entries on who to contact and how across the media and publishing worlds In short it is Full of useful stuff J K Rowling Foreword to the 2017 edition by Deborah Levy

Lift Cookbook Richard Dallaway, 2013-06-24 Annotation If you need help building web applications with the Lift framework this cookbook provides scores of concise ready to use code solutions Youll find recipes for everything from setting up a coding environment to creating REST web services and deploying your application to production Built on top of the Scala JVM programming language Lift takes a different yet ultimately easier approach to development than MVC frameworks such as Rails Each recipe in this book includes a discussion of how and why each solution works not only to help you complete the task at hand but also to illustrate how Lift works Set up an environment and run your first Lift application Generate HTML using Lifts View First approach Submit forms and work with form elements Build REST web services with the frameworks RestHelper trait Take advantage of Lifts support for Ajax and Comet Get examples for modifying Lifts request pipeline Convert Scala classes into tables rows and columns in a relational database Send email call URLs and schedule tasks from your application Package and deploy your application to various hosted services

Fundamentals of Environmental Sampling and Analysis Chunlong Zhang, 2024-02-29 Fundamentals of Environmental Sampling and Analysis A fully reworked and updated introduction to the fundamentals and applications of environmental sampling and analysis Environmental sampling and analysis are essential components of environmental data acquisition and scientific research The acquisition of reliable data with respect to proper sampling chemical and instrumental methodology and QA QC is a critical precursor to all environmental work No would be environmental scientist engineer or policymaker can succeed without an understanding of how to correctly acquire assess and use credible data Fundamentals of Environmental Sampling and Analysis 2nd edition provides this understanding with a comprehensive survey of the theory and applications of these critical sampling and analytical tools The field of environmental research has expanded greatly since the

publication of the first edition and this book has been completely rewritten to reflect the latest studies and technological developments The resulting mix of theory and practice will continue to serve as the standard introduction to the subject Readers of the second edition of Fundamentals of Environmental Sampling and Analysis will also find Three new chapters and numerous expanded sections on topics of emerging environmental concerns Detailed discussion of subjects including passive sampling Raman spectroscopy non targeted mass spectroscopic analysis and many more Over 500 sample problems and solutions along with other supplementary instructional materials Fundamentals of Environmental Sampling and Analysis is ideal for students of environmental science and engineering as well as professionals and regulators for whom reliable environmental data through sampling and analysis is critical

Practical Machine Learning for Data Analysis Using Python Abdulhamit Subasi,2020-06-05 Practical Machine Learning for Data Analysis Using Python is a problem solver s guide for creating real world intelligent systems It provides a comprehensive approach with concepts practices hands on examples and sample code The book teaches readers the vital skills required to understand and solve different problems with machine learning It teaches machine learning techniques necessary to become a successful practitioner through the presentation of real world case studies in Python machine learning ecosystems The book also focuses on building a foundation of machine learning knowledge to solve different real world case studies across various fields including biomedical signal analysis healthcare security economics and finance Moreover it covers a wide range of machine learning models including regression classification and forecasting The goal of the book is to help a broad range of readers including IT professionals analysts developers data scientists engineers and graduate students to solve their own real world problems Offers a comprehensive overview of the application of machine learning tools in data analysis across a wide range of subject areas Teaches readers how to apply machine learning techniques to biomedical signals financial data and healthcare data Explores important classification and regression algorithms as well as other machine learning techniques Explains how to use Python to handle data extraction manipulation and exploration techniques as well as how to visualize data spread across multiple dimensions and extract useful features

Handbook on Intelligent Techniques in the Educational Process Mirjana Ivanović,Aleksandra Klačnja-Milićević,Lakhmi C. Jain,2022-06-15 Education has a substantial impact and influences on almost all sectors in modern society Different computer supported educational systems have been developing for many decades to support and make easier teaching and learning processes on all levels of education Influences of rapid development of Information Communication Technologies and other related disciplines on design and implementation of intelligent sophisticated educational systems are evident Nowadays intensive development and wide applications of Artificial Intelligent techniques significantly affect the development of intelligent tutoring systems smart learning environments that incorporate virtual and augmented reality and robots Artificial Intelligence has the potential to address some of the biggest challenges in education today but also in the future in order to establish innovative teaching and learning practices

facilitated by powerful educational datamining and learning analytics This book presents a collection of 17 chapters that bring interesting aspects of the state of the art of application of intelligent techniques in different educational processes and settings We believe that the works presented in the book will be of great interest to readers and that will motivate them to try to enhance presented approaches and propose better and more advanced solutions

MongoDB in Action, Third Edition Arek Borucki, 2025-08-19 Deliver flexible scalable and high performance data storage that's perfect for AI and other modern applications with MongoDB 8.0 and MongoDB Atlas multi cloud data platform In MongoDB 8.0 in Action Third Edition you'll find comprehensive coverage of the latest version of MongoDB 8.0 and the MongoDB Atlas multi cloud data platform Learn to utilize MongoDB's flexible schema design for data modeling scale applications effectively using advanced sharding features integrate full text and vector based semantic search and more This totally revised new edition delivers engaging hands on tutorials and examples that put MongoDB into action In MongoDB 8.0 in Action Third Edition you'll Master new features in MongoDB 8.0 Create your first free Atlas cluster using the Atlas CLI Design scalable NoSQL databases with effective data modeling techniques Master Vector Search for building GenAI driven applications Utilize advanced search capabilities in MongoDB Atlas including full text search Build Event Driven Applications with Atlas Stream Processing Deploy and manage MongoDB Atlas clusters both locally and in the cloud using the Atlas CLI Leverage the Atlas SQL interface for familiar SQL querying Use MongoDB Atlas Online Archive for efficient data management Establish robust security practices including encryption Master backup and restore strategies Optimize database performance and identify slow queries MongoDB 8.0 in Action Third Edition offers a clear easy to understand introduction to everything in MongoDB 8.0 and MongoDB Atlas including new advanced features such as embedded config servers in sharded clusters or moving an unsharded collection to a different shard The book also covers Atlas stream processing full text search and vector search capabilities for generative AI applications Each chapter is packed with tips tricks and practical examples you can quickly apply to your projects whether you're brand new to MongoDB or looking to get up to speed with the latest version About the technology MongoDB is the database of choice for storing structured semi structured and unstructured data like business documents and other text and image files MongoDB 8.0 introduces a range of exciting new features from sharding improvements that simplify the management of distributed data to performance enhancements that stay resilient under heavy workloads Plus MongoDB Atlas brings vector search and full text search features that support AI powered applications About the book MongoDB 8.0 in Action Third Edition you'll learn how to take advantage of all the new features of MongoDB 8.0 including the powerful MongoDB Atlas multi cloud data platform You'll start with the basics of setting up and managing a document database Then you'll learn how to use MongoDB for AI driven applications implement advanced stream processing and optimize performance with improved indexing and query handling Hands on projects like creating a RAG based chatbot and building an aggregation pipeline mean you'll really put MongoDB into action What's inside The new features in

MongoDB 8 0 Get familiar with MongoDB s Atlas cloud platform Utilizing sharding enhancements Using vector based search technologies Full text search capabilities for efficient text indexing and querying About the reader For developers and DBAs of all levels No prior experience with MongoDB required About the author Arek Borucki is a MongoDB Champion certified MongoDB and MongoDB Atlas administrator with expertise in distributed systems NoSQL databases and Kubernetes Table of Contents Part 1 1 Understanding the world of MongoDB 2 Getting started with Atlas and MongoDB data 3 Communicating with MongoDB 4 Executing CRUD operations 5 Designing a MongoDB schema 6 Building aggregation pipelines 7 Indexing for query performance 8 Executing multidocument ACID transactions 9 Using replication and sharding Part 2 10 Delving into Database as a Service 11 Carrying out full text search using Atlas Search 12 Learning semantic techniques and Atlas Vector Search 13 Developing AI applications locally with the Atlas CLI 14 Building retrieval augmented generation AI chatbots 15 Building event driven applications 16 Optimizing data processing with Atlas Data Federation 17 Archiving online with Atlas Online Archive 18 Querying Atlas using SQL 19 Creating charts database triggers and functions Part 3 20 Understanding Atlas and MongoDB security features 21 Operational excellence with Atlas Get a free eBook PDF or ePub from Manning as well as access to the online liveBook format and its AI assistant that will answer your questions in any language when you purchase the print book *Data-intensive Systems* Tomasz Wiktorski,2019-01-01 Data intensive systems are a technological building block supporting Big Data and Data Science applications This book familiarizes readers with core concepts that they should be aware of before continuing with independent work and the more advanced technical reference literature that dominates the current landscape The material in the book is structured following a problem based approach This means that the content in the chapters is focused on developing solutions to simplified but still realistic problems using data intensive technologies and approaches The reader follows one reference scenario through the whole book that uses an open Apache dataset The origins of this volume are in lectures from a master s course in Data intensive Systems given at the University of Stavanger Some chapters were also a base for guest lectures at Purdue University and Lodz University of Technology

Specification by Example Gojko Adzic,2011-06-02 Summary Specification by Example is an emerging practice for creating software based on realistic examples bridging the communication gap between business stakeholders and the dev teams building the software In this book author Gojko Adzic distills interviews with successful teams worldwide sharing how they specify develop and deliver software without defects in short iterative delivery cycles About the Technology Specification by Example is a collaborative method for specifying requirements and tests Seven patterns fully explored in this book are key to making the method effective The method has four main benefits it produces living reliable documentation it defines expectations clearly and makes validation efficient it reduces rework and above all it assures delivery teams and business stakeholders that the software that s built is right for its purpose About the Book This book distills from the experience of leading teams worldwide effective ways to specify test and deliver software in short iterative delivery cycles

Case studies in this book range from small web startups to large financial institutions working in many processes including XP Scrum and Kanban This book is written for developers testers analysts and business people working together to build great software Purchase of the print book comes with an offer of a free PDF ePub and Kindle eBook from Manning Also available is all code from the book What's Inside Common process patterns How to avoid bad practices Fitting SBE in your process 50 case studies Table of Contents Part 1 Getting started Part 2 Key process patterns Part 3 Case studies Key benefits Key process patterns Living documentation Initiating the changes Deriving scope from goals Specifying collaboratively Illustrating using examples Refining the specification Automating validation without changing specifications Validating frequently Evolving a documentation system uSwitch RainStor Iowa Student Loan Sabre Airline Solutions ePlan Services Songkick Concluding thoughts

Mastering Predictive Analytics with Python Joseph Babcock, 2016-08-31 Exploit the power of data in your business by building advanced predictive modeling applications with Python About This Book Master open source Python tools to build sophisticated predictive models Learn to identify the right machine learning algorithm for your problem with this forward thinking guide Grasp the major methods of predictive modeling and move beyond the basics to a deeper level of understanding Who This Book Is For This book is designed for business analysts BI analysts data scientists or junior level data analysts who are ready to move from a conceptual understanding of advanced analytics to an expert in designing and building advanced analytics solutions using Python You're expected to have basic development experience with Python What You Will Learn Gain an insight into components and design decisions for an analytical application Master the use Python notebooks for exploratory data analysis and rapid prototyping Get to grips with applying regression classification clustering and deep learning algorithms Discover the advanced methods to analyze structured and unstructured data Find out how to deploy a machine learning model in a production environment Visualize the performance of models and the insights they produce Scale your solutions as your data grows using Python Ensure the robustness of your analytic applications by mastering the best practices of predictive analysis In Detail The volume diversity and speed of data available has never been greater Powerful machine learning methods can unlock the value in this information by finding complex relationships and unanticipated trends Using the Python programming language analysts can use these sophisticated methods to build scalable analytic applications to deliver insights that are of tremendous value to their organizations In Mastering Predictive Analytics with Python you will learn the process of turning raw data into powerful insights Through case studies and code examples using popular open source Python libraries this book illustrates the complete development process for analytic applications and how to quickly apply these methods to your own data to create robust and scalable prediction services Covering a wide range of algorithms for classification regression clustering as well as cutting edge techniques such as deep learning this book illustrates not only how these methods work but how to implement them in practice You will learn to choose the right approach for your problem and how to develop engaging visualizations to

bring the insights of predictive modeling to life Style and approach This book emphasizes on explaining methods through example data and code showing you templates that you can quickly adapt to your own use cases It focuses on both a practical application of sophisticated algorithms and the intuitive understanding necessary to apply the correct method to the problem at hand Through visual examples it also demonstrates how to convey insights through insightful charts and reporting

Crafting Great APIs with Domain-Driven Design Annegret Junker, Fabrizio Lazzaretti, 2025-10-27 Crafting testing and maintaining events and synchronous APIs represent one of the most challenging tasks in modern software applications This comprehensive guide delves deeply into the intricacies of managing asynchronous and synchronous APIs using a consistent design approach The uniqueness of this book lies in its emphasis on collaborative API design between IT and business experts facilitated by Domain Driven Design DDD It provides clear guidance on selecting the appropriate communication strategy for different scenarios ensuring that APIs meet the evolving needs of both developers and end users Readers will gain valuable insights into using popular definition languages such as OpenAPI and AsyncAPI This book offers a case study that demonstrates how the described methodologies can be applied to modernize legacy systems ensuring compatibility with development practices By the end of this book readers will be equipped to design APIs that are not only technically sound but also intuitive reliable and adaptable to the dynamic needs of modern applications You Will Learn how to choose the most appropriate communication strategy for different scenarios considering factors such as scalability reliability and compatibility with modern development practices Explore the practical application of popular definition languages like OpenAPI and AsyncAPI to create robust APIs Learn how to facilitate collaborative API design between IT and business experts using Domain Driven Design DDD ensuring that APIs align with both technical requirements and business objectives This book is for Software architects business analysts developers and IT professionals

Data Science Fundamentals and Practical Approaches Nandi Dr. Rupam Dr. Gypsy, Kumar Sharma, 2020-09-03 Learn how to process and analysis data using Python Key Features a The book has theories explained elaborately along with Python code and corresponding output to support the theoretical explanations The Python codes are provided with step by step comments to explain each instruction of the code a The book is quite well balanced with programs and illustrative real case problems a The book not only deals with the background mathematics alone or only the programs but also beautifully correlates the background mathematics to the theory and then finally translating it into the programs a A rich set of chapter end exercises are provided consisting of both short answer questions and long answer questions Description This book introduces the fundamental concepts of Data Science which has proved to be a major game changer in business solving problems Topics covered in the book include fundamentals of Data Science data preprocessing data plotting and visualization statistical data analysis machine learning for data analysis time series analysis deep learning for Data Science social media analytics business analytics and Big Data analytics The content of the book describes the fundamentals of each of the Data Science related

topics together with illustrative examples as to how various data analysis techniques can be implemented using different tools and libraries of Python programming language Each chapter contains numerous examples and illustrative output to explain the important basic concepts An appropriate number of questions is presented at the end of each chapter for self assessing the conceptual understanding The references presented at the end of every chapter will help the readers to explore more on a given topic What will you learn a Understand what machine learning is and how learning can be incorporated into a program a Perform data processing to make it ready for visual plot to understand the pattern in data over time a Know how tools can be used to perform analysis on big data using python a Perform social media analytics business analytics and data analytics on any data of a company or organization Who this book is for The book is for readers with basic programming and mathematical skills The book is for any engineering graduates that wish to apply data science in their projects or wish to build a career in this direction The book can be read by anyone who has an interest in data analysis and would like to explore more out of interest or to apply it to certain real life problems Table of Contents 1 Fundamentals of Data Science1 2 Data Preprocessing 3 Data Plotting and Visualization 4 Statistical Data Analysis 5 Machine Learning for Data Science 6 Time Series Analysis 7 Deep Learning for Data Science 8 Social Media Analytics 9 Business Analytics 10 Big Data Analytics About the Authors Dr Gypsy Nandi is an Assistant Professor Sr in the Department of Computer Applications Assam Don Bosco University India Her areas of interest include Data Science Social Network Mining and Machine Learning She has completed her Ph D in the field of Social Network Analysis and Mining Her research scholars are currently working mainly in the field of Data Science She has several research publications in reputed journals and book series Dr Rupam Kumar Sharma is an Assistant Professor in the Department of Computer Applications Assam Don Bosco University India His area of interest includes Machine Learning Data Analytics Network and Cyber Security He has several research publications in reputed SCI and Scopus journals He has also delivered lectures and trained hundreds of trainees and students across different institutes in the field of security and android app development *Software Architectures* Leonor Barroca,Jon Hall,Patrick A. V. Hall,2000 This book provides a unique overview of different approaches to developing software that is flexible adaptable and easy to maintain and reuse It covers the most recent advances in software architecture research In addition it provides the reader with scalable solutions for engineering and reengineering business processes including architectural components for business applications framework design for Internet distributed business applications and architectural standards for enterprise systems **Principles of Modeling and Simulation** John A. Sokolowski,Catherine M. Banks,2011-09-20 Explores wide ranging applications of modeling and simulation techniques that allow readers to conduct research and ask What if Principles of Modeling and Simulation A Multidisciplinary Approach is the first book to provide an introduction to modeling and simulation techniques across diverse areas of study Numerous researchers from the fields of social science engineering computer science and business have collaborated on this work to explore the multifaceted uses of computational

modeling while illustrating their applications in common spreadsheets The book is organized into three succinct parts Principles of Modeling and Simulation provides a brief history of modeling and simulation outlines its many functions and explores the advantages and disadvantages of using models in problem solving Two major reasons to employ modeling and simulation are illustrated through the study of a specific problem in conjunction with the use of related applications thus gaining insight into complex concepts Theoretical Underpinnings examines various modeling techniques and introduces readers to two significant simulation concepts discrete event simulation and simulation of continuous systems This section details the two primary methods in which humans interface with simulations and it also distinguishes the meaning importance and significance of verification and validation Practical Domains delves into specific topics related to transportation business medicine social science and enterprise decision support The challenges of modeling and simulation are discussed along with advanced applied principles of modeling and simulation such as representation techniques integration into the application infrastructure and emerging technologies With its accessible style and wealth of real world examples Principles of Modeling and Simulation A Multidisciplinary Approach is a valuable book for modeling and simulation courses at the upper undergraduate and graduate levels It is also an indispensable reference for researchers and practitioners working in statistics mathematics engineering computer science economics and the social sciences who would like to further develop their understanding and knowledge of the field

Writers' & Artists' Yearbook 2008 Ian Rankin, 2007-07-24 The bestselling guide to markets in all areas of the media completely revised and updated and this year in its 101st edition with a foreword by Alexander McCall Smith New articles in this edition include 1 Notes from a successful historical biographer Claire Tomalin 2 Notes from a successful literary editor Claire Armistead 3 Notes from a successful romantic novelist Jane Green 4 Audio publishing Emma Higgs 5 The writer s blogger Isabella Pereira 6 The role of the literary scout Suzy Lucas Contains information on a huge range of topics including copyright finance submitting a manuscript e publishing prizes and awards

Data Analysis with Open Source Tools Philipp K. Janert, 2010-11-11 Collecting data is relatively easy but turning raw information into something useful requires that you know how to extract precisely what you need With this insightful book intermediate to experienced programmers interested in data analysis will learn techniques for working with data in a business environment You ll learn how to look at data to discover what it contains how to capture those ideas in conceptual models and then feed your understanding back into the organization through business plans metrics dashboards and other applications Along the way you ll experiment with concepts through hands on workshops at the end of each chapter Above all you ll learn how to think about the results you want to achieve rather than rely on tools to think for you Use graphics to describe data with one two or dozens of variables Develop conceptual models using back of the envelope calculations as well as scaling and probability arguments Mine data with computationally intensive methods such as simulation and clustering Make your conclusions understandable through reports dashboards and other metrics programs

Understand financial calculations including the time value of money Use dimensionality reduction techniques or predictive analytics to conquer challenging data analysis situations Become familiar with different open source programming environments for data analysis Finally a concise reference for understanding how to conquer piles of data Austin King Senior Web Developer Mozilla An indispensable text for aspiring data scientists Michael E Driscoll CEO Founder Dataspora

Software Testing Automation Saeed Parsa,2023-03-24 This book is about the design and development of tools for software testing It intends to get the reader involved in software testing rather than simply memorizing the concepts The source codes are downloadable from the book website The book has three parts software testability fault localization and test data generation Part I describes unit and acceptance tests and proposes a new method called testability driven development TsDD in support of TDD and BDD TsDD uses a machine learning model to measure testability before and after refactoring The reader will learn how to develop the testability prediction model and write software tools for automatic refactoring Part II focuses on developing tools for automatic fault localization This part shows the reader how to use a compiler generator to instrument source code create control flow graphs identify prime paths and slice the source code On top of these tools a software tool Diagnoser is offered to facilitate experimenting with and developing new fault localization algorithms Diagnoser takes a source code and its test suite as input and reports the coverage provided by the test cases and the suspiciousness score for each statement Part III proposes using software testing as a prominent part of the cyber physical system software to uncover and model unknown physical behaviors and the underlying physical rules The reader will get insights into developing software tools to generate white box test data

Hacker's Guide to Machine Learning Concepts Trilokesh Khatri,2025-01-03 Hacker s Guide to Machine Learning Concepts is crafted for those eager to dive into the world of ethical hacking This book demonstrates how ethical hacking can help companies identify and fix vulnerabilities efficiently With the rise of data and the evolving IT industry the scope of ethical hacking continues to expand We cover various hacking techniques identifying weak points in programs and how to address them The book is accessible even to beginners offering chapters on machine learning and programming in Python Written in an easy to understand manner it allows learners to practice hacking steps independently on Linux or Windows systems using tools like Netsparker This book equips you with fundamental and intermediate knowledge about hacking making it an invaluable resource for learners

The Automated City Seng W. Loke,Andry Rakotonirainy,2021-09-01 The book outlines the concept of the Automated City in the context of smart city research and development While there have been many other perspectives on the smart city such as the participatory city and the data centric city this book focuses on automation for the smart city based on current and emerging technologies such as the Internet of Things Artificial Intelligence and Robotics The book attempts to provide a balanced view outlining the promises and potential of the Automated City as well as the perils and challenges of widespread automation in the city The book discusses at some depth automated vehicles urban robots and urban drones as emerging technologies that

will automate many aspects of city life and operation drawing on current work and research literature The book also considers broader perspectives of the future city in the context of automation in the smart city including aspirational visions of cities transportation new business models and socio technological challenges from urban edge computing ethics of the Automated City and smart devices to large scale cooperating autonomous systems in the city **Design Thinking:**

Creativity, Collaboration and Culture Ju Hyun Lee, Michael J. Ostwald, Ning Gu, 2020-08-26 This book presents new ways of facilitating design thinking through the combination of cognitive design strategies and information technologies It provides readers with an in depth understanding of the traditional and digital design processes and activities that are employed in architecture computational design communication design and graphic design The book is divided into three parts Part I which focuses on creativity uses evidence derived from empirical studies to develop an understanding of the way computational environments shape design thinking and may lead to more inventive outcomes Part II considers the cognitive dimensions of design teams crowds and collectives It investigates the ways digital design platforms promote interactive and collective thinking Lastly Part III addresses culture examining the linguistic and cultural context of the globalised design ecosystem Providing valuable insights into design thinking this book helps readers engage with their local and global environments It will appeal to academics researchers and professionals with an interest in understanding design thinking in the context of creativity collaboration and culture *Python: Advanced Predictive Analytics* Joseph Babcock, Ashish Kumar, 2017-12-27 Gain practical insights by exploiting data in your business to build advanced predictive modeling applications About This Book A step by step guide to predictive modeling including lots of tips tricks and best practices Learn how to use popular predictive modeling algorithms such as Linear Regression Decision Trees Logistic Regression and Clustering Master open source Python tools to build sophisticated predictive models Who This Book Is For This book is designed for business analysts BI analysts data scientists or junior level data analysts who are ready to move on from a conceptual understanding of advanced analytics and become an expert in designing and building advanced analytics solutions using Python If you are familiar with coding in Python or some other programming statistical scripting language but have never used or read about predictive analytics algorithms this book will also help you What You Will Learn Understand the statistical and mathematical concepts behind predictive analytics algorithms and implement them using Python libraries Get to know various methods for importing cleaning sub setting merging joining concatenating exploring grouping and plotting data with pandas and NumPy Master the use of Python notebooks for exploratory data analysis and rapid prototyping Get to grips with applying regression classification clustering and deep learning algorithms Discover advanced methods to analyze structured and unstructured data Visualize the performance of models and the insights they produce Ensure the robustness of your analytic applications by mastering the best practices of predictive analysis In Detail Social Media and the Internet of Things have resulted in an avalanche of data Data is powerful but not in its raw form it needs to be processed and

modeled and Python is one of the most robust tools out there to do so. It has an array of packages for predictive modeling and a suite of IDEs to choose from. Using the Python programming language, analysts can use these sophisticated methods to build scalable analytic applications. This book is your guide to getting started with predictive analytics using Python. You'll balance both statistical and mathematical concepts and implement them in Python using libraries such as pandas, scikit-learn, and NumPy. Through case studies and code examples using popular open-source Python libraries, this book illustrates the complete development process for analytic applications. Covering a wide range of algorithms for classification, regression, clustering, as well as cutting-edge techniques such as deep learning, this book illustrates how these methods work. You will learn to choose the right approach for your problem and how to develop engaging visualizations to bring to life the insights of predictive modeling. Finally, you will learn best practices in predictive modeling as well as the different applications of predictive modeling in the modern world. The course provides you with highly practical content from the following Packt books:

1. Learning Predictive Analytics with Python
2. Mastering Predictive Analytics with Python

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