Quick answers to common problems

Haskell Data Analysis Cookbook

Explore intuitive data analysis techniques and powerful machine learning methods using over 130 practical recipes

Nishant Shukla

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Haskell Data Analysis Cookbook Nishant Shukla,2014-06-30 **Haskell Data Analysis Cookbook** Nishant Shukla,2014-06-25 Step by step recipes filled with practical code samples and engaging examples demonstrate Haskell in practice and then the concepts behind the code This book shows functional developers and analysts how to leverage their existing knowledge of Haskell specifically for high quality data analysis A good understanding of data sets and functional programming is assumed **Haskell Design Patterns** Ryan Lemmer,2015-11-06 Take your Haskell and functional programming skills to the next level by exploring new idioms and design patterns About This Book Explore Haskell on a higher level through idioms and patterns Get an in depth look into the three strongholds of Haskell higher order functions the Type system and Lazy evaluation Expand your understanding of Haskell and functional programming one line of executable code at a time Who This Book Is For If you re a Haskell programmer with a firm grasp of the basics and ready to move more deeply into modern idiomatic Haskell programming then this book is for you What You Will Learn Understand the relationship between the Gang of Four OOP Design Patterns and Haskell Try out three ways of Streaming I O imperative Lazy and Iteratee based Explore the pervasive pattern of Composition from function composition through to high level composition with Lenses Synthesize Functor Applicative Arrow and Monad in a single conceptual framework Follow the grand arc of Fold and Map on lists all the way to their culmination in Lenses and Generic Programming Get a taste of Type level programming in Haskell and how this relates to dependently typed programming Retrace the evolution one key language extension at a time of the Haskell Type and Kind systems Place the elements of modern Haskell in a historical framework In Detail Design patterns and idioms can widen our perspective by showing us where to look what to look at and ultimately how to see what we are looking at At their best patterns are a shorthand method of communicating better ways to code writing less more maintainable and more efficient code This book starts with Haskell 98 and through the lens of patterns and idioms investigates the key advances and programming styles that together make modern Haskell Your journey begins with the three pillars of Haskell Then you ll experience the problem with Lazy I O together with a solution You ll also trace the hierarchy formed by Functor Applicative Arrow and Monad Next you ll explore how Fold and Map are generalized by Foldable and Traversable which in turn is unified in a broader context by functional Lenses You ll delve more deeply into the Type system which will prepare you for an overview of Generic programming In conclusion you go to the edge of Haskell by investigating the Kind system and how this relates to Dependently typed programming Style and approach Using short pieces of executable code this guide gradually explores the broad pattern landscape of modern Haskell Ideas are presented in their historical context and arrived at through intuitive derivations always with a focus on the problems they solve *Machine Learning with TensorFlow* Nishant Shukla,2018-02-12 Summary Machine Learning with TensorFlow gives readers a solid foundation in machine learning concepts plus hands on experience coding TensorFlow with Python Purchase of the print

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and handle scarce resources such as filesystem handles Organize your programs by creating your own types and type classesIn DetailHaskell is a purely functional language that has the great ability to develop large and difficult but easily maintainable software Haskell Cookbook provides recipes that start by illustrating the principles of functional programming in Haskell and then gradually build up your expertise in creating industrial strength programs to accomplish any goal The book covers topics such as Functors Applicatives Monads and Transformers You will learn various ways to handle state in your application and explore advanced topics such as Generalized Algebraic Data Types higher kind types existential types and type families The book will discuss the association of lenses with type classes such as Functor Foldable and Traversable to help you manage deep data structures With the help of the wide selection of examples in this book you will be able to upgrade your Haskell programming skills and develop scalable software idiomatically Style and approachThe book follows a recipe based approach Each recipe addresses specific problems and issues The recipes provide discussions and insights to explain these problems   Clojure Data Analysis Cookbook - Second Edition Eric Rochester,2015-01-27 This book is for those with a basic knowledge of Clojure who are looking to push the language to excel with data analysis   **Advanced Haskell Data Analysis** James Church,2016 Every business and organization that collects data is capable of tapping into its own data to gain insights on how to improve Haskell is a purely functional and lazy programming language that is well suited to handling large data analysis problems This video picks up where Beginning Haskell Data Analysis takes off This video series will take you through the more difficult problems of data analysis in a conversational style You will be guided on how to find correlations in data as well as multiple dependent variables You will be given a theoretical overview of the types of regression and we ll show you how to install the LAPACK and HMatrix libraries By the end of the first part you ll be familiar with the application of N grams and TF IDF Once you ve learned how to analyze data the next step is organizing that data with the help of machine learning algorithms You will be briefed on the mathematics and statistical theorems such as Baye s law and its application as well as eigenvalues and eigenvectors using HMatrix By the end of this course you ll have an understanding of data analysis different ways to analyze data and the various clustering algorithms available You ll also understand Haskell and will be ready to write code with it Resource description page   Haskell Cookbook Yogesh Sajanikar,2017-09-25 Save time and build fast functional and concurrent application using Haskell About This Book Comprehensive guide for establishing a strong foundation in Haskell and developing pragmatic code Create a full fledged web application using Haskell Work with Lens Haskell Extensions and write code for concurrent and distributed applications Who This Book Is For This book is targeted at readers who wish to learn the Haskell language If you are a beginner Haskell Cookbook will get you started If you are experienced it will expand your knowledge base A basic knowledge of programming will be helpful What You Will Learn Use functional data structures and algorithms to solve problems Understand the intricacies of the type system Create a simple parser for integer expressions with additions Build high performance web

services with Haskell Master mechanisms for concurrency and parallelism in Haskell Perform parsing and handle scarce resources such as filesystem handles Organize your programs by creating your own types and type classes In Detail Haskell is a purely functional language that has the great ability to develop large and difficult but easily maintainable software Haskell Cookbook provides recipes that start by illustrating the principles of functional programming in Haskell and then gradually build up your expertise in creating industrial strength programs to accomplish any goal The book covers topics such as Functors Applicatives Monads and Transformers You will learn various ways to handle state in your application and explore advanced topics such as Generalized Algebraic Data Types higher kind types existential types and type families The book will discuss the association of lenses with type classes such as Functor Foldable and Traversable to help you manage deep data structures With the help of the wide selection of examples in this book you will be able to upgrade your Haskell programming skills and develop scalable software idiomatically Style and approach The book follows a recipe based approach Each recipe addresses specific problems and issues The recipes provide discussions and insights to explain these problems

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