



Learning R For Geospatial Analysis

Michael Dorman



Learning R For Geospatial Analysis:

Learning R for Geospatial Analysis Michael Dorman, 2014-12-26 This book is intended for anyone who wants to learn how to efficiently analyze geospatial data with R including GIS analysts researchers educators and students who work with spatial data and who are interested in expanding their capabilities through programming The book assumes familiarity with the basic geographic information concepts such as spatial coordinates but no prior experience with R and or programming is required By focusing on R exclusively you will not need to depend on any external software a working installation of R is all that is necessary to begin

Hands-On Geospatial Analysis with R and QGIS Shammunul Islam, 2018-11-30 Practical examples with real world projects in GIS Remote sensing Geospatial data management and Analysis using the R programming language Key Features Understand the basics of R and QGIS to work with GIS and remote sensing data Learn to manage manipulate and analyze spatial data using R and QGIS Apply machine learning algorithms to geospatial data using R and QGIS Book Description Managing spatial data has always been challenging and it's getting more complex as the size of data increases Spatial data is actually big data and you need different tools and techniques to work your way around to model and create different workflows R and QGIS have powerful features that can make this job easier This book is your companion for applying machine learning algorithms on GIS and remote sensing data You'll start by gaining an understanding of the nature of spatial data and installing R and QGIS Then you'll learn how to use different R packages to import export and visualize data before doing the same in QGIS Screenshots are included to ease your understanding Moving on you'll learn about different aspects of managing and analyzing spatial data before diving into advanced topics You'll create powerful data visualizations using ggplot2 ggmap raster and other packages of R You'll learn how to use QGIS 3.2.2 to visualize and manage create edit and format spatial data Different types of spatial analysis are also covered using R Finally you'll work with landslide data from Bangladesh to create a landslide susceptibility map using different machine learning algorithms By reading this book you'll transition from being a beginner to an intermediate user of GIS and remote sensing data in no time What you will learn Install R and QGIS Get familiar with the basics of R programming and QGIS Visualize quantitative and qualitative data to create maps Find out the basics of raster data and how to use them in R and QGIS Perform geoprocessing tasks and automate them using the graphical modeler of QGIS Apply different machine learning algorithms on satellite data for landslide susceptibility mapping and prediction Who this book is for This book is great for geographers environmental scientists statisticians and every professional who deals with spatial data If you want to learn how to handle GIS and remote sensing data then this book is for you Basic knowledge of R and QGIS would be helpful but is not necessary

Python Geospatial Analysis Cookbook Michael Diener, 2015-11-30 Over 60 recipes to work with topology overlays indoor routing and web application analysis with Python About This Book Explore the practical process of using geospatial analysis to solve simple to complex problems with reusable recipes Concise step by step instructions to teach you about projections

vector raster overlay indoor routing and topology analysis Create a basic indoor routing application with geodjango Who This Book Is For If you are a student teacher programmer geospatial or IT administrator GIS analyst researcher or scientist looking to do spatial analysis then this book is for you Anyone trying to answer simple to complex spatial analysis questions will get a working demonstration of the power of Python with real world data Some of you may be beginners with GIS but most of you will probably have a basic understanding of geospatial analysis and programming What You Will Learn Discover the projection and coordinate system information of your data and learn how to transform that data into different projections Import or export your data into different data formats to prepare it for your application or spatial analysis Use the power of PostGIS with Python to take advantage of the powerful analysis functions Execute spatial analysis functions on vector data including clipping spatial joins measuring distances areas and combining data to new results Create your own set of topology rules to perform and ensure quality assurance rules in Python Find the shortest indoor path with network analysis functions in easy extensible recipes revolving around all kinds of network analysis problems Visualize your data on a map using the visualization tools and methods available to create visually stunning results Build an indoor routing web application with GeoDjango to include your spatial analysis tools built from the previous recipes In Detail Geospatial development links your data to places on the Earth s surface Its analysis is used in almost every industry to answer location type questions Combined with the power of the Python programming language which is becoming the de facto spatial scripting choice for developers and analysts worldwide this technology will help you to solve real world spatial problems This book begins by tackling the installation of the necessary software dependencies and libraries needed to perform spatial analysis with Python From there the next logical step is to prepare our data for analysis we will do this by building up our tool box to deal with data preparation transformations and projections Now that our data is ready for analysis we will tackle the most common analysis methods for vector and raster data To check or validate our results we will explore how to use topology checks to ensure top quality results This is followed with network routing analysis focused on constructing indoor routes within buildings over different levels Finally we put several recipes together in a GeoDjango web application that demonstrates a working indoor routing spatial analysis application The round trip will provide you all the pieces you need to accomplish your own spatial analysis application to suit your requirements Style and approach Easy to follow step by step recipes explaining from start to finish how to accomplish real world tasks

Data Analysis with R Tony Fischetti, 2015-12-22 Load wrangle and analyze your data using the world s most powerful statistical programming language About This Book Load manipulate and analyze data from different sources Gain a deeper understanding of fundamentals of applied statistics A practical guide to performing data analysis in practice Who This Book Is For Whether you are learning data analysis for the first time or you want to deepen the understanding you already have this book will prove to an invaluable resource If you are looking for a book to bring you all the way through the fundamentals to the application of advanced and effective analytics methodologies and have some prior

programming experience and a mathematical background then this is for you

What You Will Learn

- Navigate the R environment
- Describe and visualize the behavior of data and relationships between data
- Gain a thorough understanding of statistical reasoning and sampling
- Employ hypothesis tests to draw inferences from your data
- Learn Bayesian methods for estimating parameters
- Perform regression to predict continuous variables
- Apply powerful classification methods to predict categorical data
- Handle missing data gracefully using multiple imputation
- Identify and manage problematic data points
- Employ parallelization and Rcpp to scale your analyses to larger data
- Put best practices into effect to make your job easier and facilitate reproducibility

In Detail

Frequently the tool of choice for academics R has spread deep into the private sector and can be found in the production pipelines at some of the most advanced and successful enterprises The power and domain specificity of R allows the user to express complex analytics easily quickly and succinctly With over 7 000 user contributed packages it s easy to find support for the latest and greatest algorithms and techniques Starting with the basics of R and statistical reasoning Data Analysis with R dives into advanced predictive analytics showing how to apply those techniques to real world data though with real world examples Packed with engaging problems and exercises this book begins with a review of R and its syntax From there get to grips with the fundamentals of applied statistics and build on this knowledge to perform sophisticated and powerful analytics Solve the difficulties relating to performing data analysis in practice and find solutions to working with messy data large data communicating results and facilitating reproducibility This book is engineered to be an invaluable resource through many stages of anyone s career as a data analyst

Style and approach

Learn data analysis using engaging examples and fun exercises and with a gentle and friendly but comprehensive learn by doing approach

Ethics, Machine Learning, and Python in Geospatial Analysis

Galety, Mohammad Gouse, Natarajan, Arul Kumar, Gedefa, Tesfaye Fufa, Lemma, Tsegaye Demssis, 2024-04-29

In geospatial analysis navigating the complexities of data interpretation and analysis presents a formidable challenge Traditional methods often need to efficiently handle vast volumes of geospatial data while providing insightful and actionable results Scholars and practitioners grapple with manual or rule based approaches hindering progress in understanding and addressing pressing issues such as climate change urbanization and resource management

Ethics Machine Learning and Python in Geospatial Analysis

offers a solution to the challenges faced by leveraging the extensive library support and user friendly interface of Python and machine learning The book s meticulously crafted chapters guide readers through the intricacies of Python programming and its application in geospatial analysis from fundamental concepts to advanced techniques

Learning Geospatial Analysis with Python

Joel Lawhead, 2019-09-27

Learn the core concepts of geospatial data analysis for building actionable and insightful GIS applications

Key Features

- Create GIS solutions using the new features introduced in Python 3 7
- Explore a range of GIS tools and libraries such as PostGIS QGIS and PROJ
- Learn to automate geospatial analysis workflows using Python and Jupyter

Book Description

Geospatial analysis is used in almost every domain you can think of including defense farming and even

medicine With this systematic guide you ll get started with geographic information system GIS and remote sensing analysis using the latest features in Python This book will take you through GIS techniques geodatabases geospatial raster data and much more using the latest built in tools and libraries in Python 3 7 You ll learn everything you need to know about using software packages or APIs and generic algorithms that can be used for different situations Furthermore you ll learn how to apply simple Python GIS geospatial processes to a variety of problems and work with remote sensing data By the end of the book you ll be able to build a generic corporate system which can be implemented in any organization to manage customer support requests and field support personnel What you will learn Automate geospatial analysis workflows using Python Code the simplest possible GIS in just 60 lines of Python Create thematic maps with Python tools such as PyShp OGR and the Python Imaging Library Understand the different formats that geospatial data comes in Produce elevation contours using Python tools Create flood inundation models Apply geospatial analysis to real time data tracking and storm chasing Who this book is for This book is for Python developers researchers or analysts who want to perform geospatial modeling and GIS analysis with Python Basic knowledge of digital mapping and analysis using Python or other scripting languages will be helpful

Geocomputation with R Robin Lovelace, Jakub Nowosad, Jannes Muenchow, 2025-05-23 Geocomputation with R is for people who want to analyze visualize and model geographic data with open source software The book provides a foundation for learning how to solve a wide range of geographic data analysis problems in a reproducible and therefore scientifically sound and scalable way The second edition features numerous updates including the adoption of the high performance terra package for all raster data processing detailed coverage of the spherical geometry engine s2 updated information on coordinate reference systems and new content on openEO STAC COG and gdalcubes The data visualization chapter has been revamped around version 4 of the tmap package providing a fresh perspective on creating publication quality maps from the command line The importance of the book is also highlighted in a new foreword by Edzer Pebesma The book equips you with the knowledge and skills necessary to tackle a wide range of issues manifested in geographic data including those with scientific societal and environmental implications The book is especially well suited to Data scientists and engineers interested in upskilling to handle spatial data People with existing geographic data skills interested in developing powerful geosolutions via code Anyone who needs to work with spatial data in a reproducible and scalable way The book is divided into three parts Foundations Extensions and Applications covering progressively more advanced topics The exercises at the end of each chapter provide the necessary skills to address various geospatial problems with solutions and supplementary materials available at rgeocomp.org/solutions

Spatial Analysis in Geology Using R Pedro M. Nogueira, 2024-07-01 The integration of geology with data science disciplines such as spatial statistics remote sensing and geographic information systems GIS has given rise to a shift in many natural sciences schools pushing the boundaries of knowledge and enabling new discoveries in geological processes and earth systems Spatial analysis of geological data can be

used to identify patterns and trends in data to map spatial relationships and to model spatial processes R is a consolidated and yet growing statistical programming language with increasing value in spatial analysis often replacing with advantage GIS tools By providing a comprehensive guide for geologists to harness the power of spatial analysis in R Spatial Analysis in Geology Using R serves as a tool in addressing real world problems such as natural resource management environmental conservation and hazard prediction and mitigation Features Provides a practical and accessible overview of spatial analysis in geology using R Organised in three independent and complementary parts Introduction to R Spatial Analysis with R and Spatial Statistics and Modelling Applied approach with many detailed examples and case studies using real geological data Presents a collection of R packages that are useful in many geological situations Does not assume any prior knowledge of R all code are explained in detail Supplemented by a website with all data code and examples Spatial Analysis in Geology Using R will be useful to any geological researcher who has acquired basic spatial analysis skills often using GIS and is interested in deepening those skills through the use of R It could be used as a reference by applied researchers and analysts in public private or third sector industries It could also be used to teach a course on the topic to graduate students or for self study

Geographic Data Science with R Michael C. Wimberly, 2023-05-08 The burgeoning field of data science has provided a wealth of techniques for analysing large and complex geospatial datasets including descriptive explanatory and predictive analytics However applying these methods is just one part of the overall process of geographic data science Other critical steps include screening for suspect data values handling missing data harmonizing data from multiple sources summarizing the data and visualizing data and analysis results Although there are many books available on statistical and machine learning methods few encompass the broader topic of scientific workflows for geospatial data processing and analysis The purpose of Geographic Data Science with R is to fill this gap by providing a series of tutorials aimed at teaching good practices for using geospatial data to address problems in environmental geography It is based on the R language and environment which currently provides the best option for working with diverse spatial and non spatial data in a single platform Fundamental techniques for processing and visualizing tabular vector and raster data are introduced through a series of practical examples followed by case studies that combine multiple types of data to address more complex problems The book will have a broad audience Both students and professionals can use it as a workbook to learn high level techniques for geospatial data processing and analysis with R It is also suitable as a textbook Although not intended to provide a comprehensive introduction to R it is designed to be accessible to readers who have at least some knowledge of coding but little to no experience with R Key Features Focus on developing practical workflows for processing and integrating multiple sources of geospatial data in R Example based approach that teaches R programming and data science concepts through real world applications related to climate land cover and land use and natural hazards Consistent use of tidyverse packages for tabular data manipulation and visualization Strong focus on analysing continuous and categorical raster datasets using the

new terra package Organized so that each chapter builds on the topics and techniques covered in the preceding chapters Can be used for self study or as the textbook for a geospatial science course Explainable Machine Learning for Geospatial Data Analysis Courage Kamusoko,2024-12-06 Explainable machine learning XML a subfield of AI is focused on making complex AI models understandable to humans This book highlights and explains the details of machine learning models used in geospatial data analysis It demonstrates the need for a data centric explainable machine learning approach to obtain new insights from geospatial data It presents the opportunities challenges and gaps in the machine and deep learning approaches for geospatial data analysis and how they are applied to solve various environmental problems in land cover changes and in modeling forest canopy height and aboveground biomass density The author also includes guidelines and code scripts R Python valuable for practical readers Features Data centric explainable machine learning ML approaches for geospatial data analysis The foundations and approaches to explainable ML and deep learning Several case studies from urban land cover and forestry where existing explainable machine learning methods are applied Descriptions of the opportunities challenges and gaps in data centric explainable ML approaches for geospatial data analysis Scripts in R and python to perform geospatial data analysis available upon request This book is an essential resource for graduate students researchers and academics working in and studying data science and machine learning as well as geospatial data science professionals using GIS and remote sensing in environmental fields Techniques in Remote Sensing and Digital Image Processing Mr. Rohit Manglik,2024-06-24 Covers remote sensing and image processing techniques including satellite data analysis for applications in environmental and geographical studies Spatial Data Analysis With R Danlin Yu,2025-02-27 This is an introduction for social science students to the growing field of spatial data analysis using the R platform The text assumes no prior knowledge of either beyond the contents of an introductory statistics course It uses the open source software R and relevant spatial data analysis packages to provide practical guidance of how to conduct spatial data analysis with readers own data sets The book first briefly introduces students to R covers some basic concepts in statistical data analysis and then focuses on discussing the central ideas of spatial data analysis All the discussions are supported with R scripts so that students can work on their own and produce results that the book helps interpret Each chapter ends with review questions to test understanding The book is suited for upper level undergraduate social science students and graduate students and other social scientists who are interested in analyzing their spatial data with R A companion website for the book at <https://edge.sagepub.com/you> includes R code and data for students to replicate the examples in the book The password protected instructor side of the site includes exercises and answers which can be set for homework *Environmental Applications of Remote Sensing and GIS in Libya* Hamdi A. Zurqani,2022-06-29 This book addresses the environmental challenges that Libya and similar countries in the regions are currently facing Each chapter of this book provides a methodology using remote sensing RS and geographical information systems GIS dealing with one of these environmental challenges such as monitoring and mapping soil salinity

and prediction of soil properties monitoring and mapping of land degradation spatiotemporal land use cover agricultural drought monitoring hydrological applications such as spatial rainfall distribution surface runoff geo morphometric analysis flood hazard assessment and mapping hydrologic and hydraulic modeling pollution hazard assessment and climate related geophysical processes This book also assesses the impacts of climate change on natural resources using both RS and GIS as well as other applications covering different parts of Libya This book is beneficial for graduate students researchers policy planners and stakeholders in Libya as well as other countries that share similar environmental issues Also the methodologies followed in the book s chapters can be applied to any other regions around the world with similar landscapes and climatic conditions

Advances in Remote Sensing and GIS Mr. Rohit Manglik,2024-06-24 A comprehensive guide to the latest technologies and methodologies in remote sensing and geographic information systems this book highlights advancements in data acquisition image processing and geospatial analysis

Reconstructing Olduvai Manuel Domínguez-Rodrigo,Lucía Cobo-Sánchez,Enrique Baquedano,Audax Mabulla,Agness Gidna,Fernando Diez-Martin,2024-05-30 Reconstructing Olduvai The Behavior of Early Humans at David s Site provides the necessary information for future generations of archaeologists to peer into the lifestyle of early humans Much of what is known about these hominins originates from the detailed excavations that Mary Leakey carried out at Olduvai Gorge in Tanzania Since then work at Olduvai has produced a wealth of new fossils resulting in the discovery of David s Site the biggest early Pleistocene site in the world Its exceptional preservation and size make it an invaluable paleoarcheological finding and this book details the insights discovered therein about the dietary technological and social behaviors of hominins Written by leaders of present day excavations at Olduvai Gorge this book is systematically divided into three parts to deliver a clear account of the research advancements at David s Site Part I focuses on the presentation of the site and the description of its geological and paleoecological reconstruction Part II examines hominin feeding habits including how they brought processed and consumed animals at the site Part III explores hominin technologies including reconstruction of the stone tool activities carried out at the site Reconstructing Olduvai offers a much needed update to the decades old monographs focused on Olduvai Gorge Tanzania by providing novel information on the fossils sites technologies and behaviors of early humans It is an indispensable resource for students academics and researchers who share an interest in the evolution of early human behavior Describes the discovery and excavation of David s Site DS at Olduvai Gorge Tanzania Details the geological and paleoecological reconstruction of all Olduvai Gorge Bed I sites Summarizes the impact of taphonomic analyses at Bed I sites on our understanding of early human behaviors Explores the dietary habits and technologies of early Pleistocene hominins

[Data Analytics for Intelligent Transportation Systems](#) Mashrur Chowdhury,Kakan Dey,Amy Apon,2024-11-02 Data Analytics for Intelligent Transportation Systems provides in depth coverage of data enabled methods for analyzing intelligent transportation systems ITS including the tools needed to implement these methods using big data analytics and other computing techniques The book examines the major

characteristics of connected transportation systems along with the fundamental concepts of how to analyze the data they produce It explores collecting archiving processing and distributing the data designing data infrastructures data management and delivery systems and the required hardware and software technologies It presents extensive coverage of existing and forthcoming intelligent transportation systems and data analytics technologies All fundamentals concepts presented in this book are explained in the context of ITS Users will learn everything from the basics of different ITS data types and characteristics to how to evaluate alternative data analytics for different ITS applications They will discover how to design effective data visualizations tactics on the planning process and how to evaluate alternative data analytics for different connected transportation applications along with key safety and environmental applications for both commercial and passenger vehicles data privacy and security issues and the role of social media data in traffic planning Data Analytics for Intelligent Transportation Systems will prepare an educated ITS workforce and tool builders to make the vision for safe reliable and environmentally sustainable intelligent transportation systems a reality It serves as a primary or supplemental textbook for upper level undergraduate and graduate ITS courses and a valuable reference for ITS practitioners Utilizes real ITS examples to facilitate a quicker grasp of materials presented Contains contributors from both leading academic and commercial domains Explains how to design effective data visualizations tactics on the planning process and how to evaluate alternative data analytics for different connected transportation applications Includes exercise problems in each chapter to help readers apply and master the learned fundamentals concepts and techniques New to the second edition Two new chapters on Quantum Computing in Data Analytics and Society and Environment in ITS Data Analytics Advances in Scalable and Intelligent Geospatial Analytics Surya S Durbha,Jibonananda Sanyal,Lexie Yang,Sangita S Chaudhari,Ujwala Bhangale,Ujwala Bharambe,Kuldeep Kurte,2023-05-12 Geospatial data acquisition and analysis techniques have experienced tremendous growth in the last few years providing an opportunity to solve previously unsolved environmental and natural resource related problems However a variety of challenges are encountered in processing the highly voluminous geospatial data in a scalable and efficient manner Technological advancements in high performance computing computer vision and big data analytics are enabling the processing of big geospatial data in an efficient and timely manner Many geospatial communities have already adopted these techniques in multidisciplinary geospatial applications around the world This book is a single source that offers a comprehensive overview of the state of the art and future developments in this domain FEATURES Demonstrates the recent advances in geospatial analytics tools technologies and algorithms Provides insight and direction to the geospatial community regarding the future trends in scalable and intelligent geospatial analytics Exhibits recent geospatial applications and demonstrates innovative ways to use big geospatial data to address various domain specific real world problems Recognizes the analytical and computational challenges posed and opportunities provided by the increased volume velocity and veracity of geospatial data This book is beneficial to graduate and postgraduate students

academicians research scholars working professionals industry experts and government research agencies working in the geospatial domain where GIS and remote sensing are used for a variety of purposes Readers will gain insights into the emerging trends on scalable geospatial data analytics

Data Science, Analytics and Machine Learning with R Luiz Paulo Favero, Patricia Belfiore, Rafael de Freitas Souza, 2023-01-23 Data Science Analytics and Machine Learning with R explains the principles of data mining and machine learning techniques and accentuates the importance of applied and multivariate modeling The book emphasizes the fundamentals of each technique with step by step codes and real world examples with data from areas such as medicine and health biology engineering technology and related sciences Examples use the most recent R language syntax with recognized robust widespread and current packages Code scripts are exhaustively commented making it clear to readers what happens in each command For data collection readers are instructed how to build their own robots from the very beginning In addition an entire chapter focuses on the concept of spatial analysis allowing readers to build their own maps through geo referenced data such as in epidemiologic research and some basic statistical techniques Other chapters cover ensemble and uplift modeling and GLMM Generalized Linear Mixed Models estimations both linear and nonlinear Presents a comprehensive and practical overview of machine learning data mining and AI techniques for a broad multidisciplinary audience Serves readers who are interested in statistics analytics and modeling and those who wish to deepen their knowledge in programming through the use of R Teaches readers how to apply machine learning techniques to a wide range of data and subject areas Presents data in a graphically appealing way promoting greater information transparency and interactive learning

Mastering Geospatial Analysis with Python Silas Toms, Paul Crickard, Eric van Rees, 2018-04-27 Explore GIS processing and learn to work with various tools and libraries in Python Key Features Analyze and process geospatial data using Python libraries such as Anaconda GeoPandas Leverage new ArcGIS API to process geospatial data for the cloud Explore various Python geospatial web and machine learning frameworks Book Description Python comes with a host of open source libraries and tools that help you work on professional geoprocessing tasks without investing in expensive tools This book will introduce Python developers both new and experienced to a variety of new code libraries that have been developed to perform geospatial analysis statistical analysis and data management This book will use examples and code snippets that will help explain how Python 3 differs from Python 2 and how these new code libraries can be used to solve age old problems in geospatial analysis You will begin by understanding what geoprocessing is and explore the tools and libraries that Python 3 offers You will then learn to use Python code libraries to read and write geospatial data You will then learn to perform geospatial queries within databases and learn PyQGIS to automate analysis within the QGIS mapping suite Moving forward you will explore the newly released ArcGIS API for Python and ArcGIS Online to perform geospatial analysis and create ArcGIS Online web maps Further you will deep dive into Python Geospatial web frameworks and learn to create a geospatial REST API What you will learn Manage code libraries and abstract geospatial analysis

techniques using Python 3 Explore popular code libraries that perform specific tasks for geospatial analysis Utilize code libraries for data conversion data management web maps and REST API creation Learn techniques related to processing geospatial data in the cloud Leverage features of Python 3 with geospatial databases such as PostGIS SQL Server and SpatiaLite Who this book is for The audience for this book includes students developers and geospatial professionals who need a reference book that covers GIS data management analysis and automation techniques with code libraries built in Python 3

Geographic Information Systems - Data Science Approach Rifaat Abdalla, 2024-03-13 Dive into the dynamic world of Geographic Information Systems GIS and data science with our comprehensive book in which innovation and insights converge This book presents a pioneering exploration at the intersection of GIS and data science providing a comprehensive view of their symbiotic relationship and transformative potential It encapsulates advanced methodologies real world applications and interdisciplinary approaches that redefine how we perceive and utilize spatial data Offering a gateway to cutting edge research and practical insights this book serves as a crucial resource for scholars practitioners and enthusiasts alike It addresses pressing challenges across diverse domains from environmental studies to public health and predictive analytics demonstrating the paramount significance of integrating GIS with data science methodologies It is an essential compass guiding readers toward a deeper understanding and application of these dynamic fields in today's data driven world

Immerse yourself in heartwarming tales of love and emotion with is touching creation, Experience Loveis Journey in **Learning R For Geospatial Analysis** . This emotionally charged ebook, available for download in a PDF format (PDF Size: *), is a celebration of love in all its forms. Download now and let the warmth of these stories envelop your heart.

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Learning R For Geospatial Analysis Introduction

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