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Mastering Python for Data Science

Explore the world of data science through Python and learn how to make sense of data

Samir Madhavan

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Mastering Python For Data Science By Samir Madhavan

**Magnus Vilhelm Persson, Luiz Felipe
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Mastering Python For Data Science By Samir Madhavan:

Mastering Python for Data Science Samir Madhavan, 2015-08-31 Explore the world of data science through Python and learn how to make sense of data About This Book Master data science methods using Python and its libraries Create data visualizations and mine for patterns Advanced techniques for the four fundamentals of Data Science with Python data mining data analysis data visualization and machine learning Who This Book Is For If you are a Python developer who wants to master the world of data science then this book is for you Some knowledge of data science is assumed What You Will Learn Manage data and perform linear algebra in Python Derive inferences from the analysis by performing inferential statistics Solve data science problems in Python Create high end visualizations using Python Evaluate and apply the linear regression technique to estimate the relationships among variables Build recommendation engines with the various collaborative filtering algorithms Apply the ensemble methods to improve your predictions Work with big data technologies to handle data at scale In Detail Data science is a relatively new knowledge domain which is used by various organizations to make data driven decisions Data scientists have to wear various hats to work with data and to derive value from it The Python programming language beyond having conquered the scientific community in the last decade is now an indispensable tool for the data science practitioner and a must know tool for every aspiring data scientist Using Python will offer you a fast reliable cross platform and mature environment for data analysis machine learning and algorithmic problem solving This comprehensive guide helps you move beyond the hype and transcend the theory by providing you with a hands on advanced study of data science Beginning with the essentials of Python in data science you will learn to manage data and perform linear algebra in Python You will move on to deriving inferences from the analysis by performing inferential statistics and mining data to reveal hidden patterns and trends You will use the matplotlib library to create high end visualizations in Python and uncover the fundamentals of machine learning Next you will apply the linear regression technique and also learn to apply the logistic regression technique to your applications before creating recommendation engines with various collaborative filtering algorithms and improving your predictions by applying the ensemble methods Finally you will perform K means clustering along with an analysis of unstructured data with different text mining techniques and leveraging the power of Python in big data analytics Style and approach This book is an easy to follow comprehensive guide on data science using Python The topics covered in the book can all be used in real world scenarios **Mastering Python for Data**

Science Samir Medhavan, Samir, 2015-08-31 Explore the world of data science through Python and learn how to make sense of data About This Book Master data science methods using Python and its libraries Create data visualizations and mine for patterns Advanced techniques for the four fundamentals of Data Science with Python data mining data analysis data visualization and machine learning Who This Book Is For If you are a Python developer who wants to master the world of data science then this book is for you Some knowledge of data science is assumed What You Will Learn Manage data and perform

linear algebra in Python Derive inferences from the analysis by performing inferential statistics Solve data science problems in Python Create high end visualizations using Python Evaluate and apply the linear regression technique to estimate the relationships among variables Build recommendation engines with the various collaborative filtering algorithms Apply the ensemble methods to improve your predictions Work with big data technologies to handle data at scale

Data science is a relatively new knowledge domain which is used by various organizations to make data driven decisions Data scientists have to wear various hats to work with data and to derive value from it The Python programming language beyond having conquered the scientific community in the last decade is now an indispensable tool for the data science practitioner and a must know tool for every aspiring data scientist Using Python will offer you a fast reliable cross platform and mature environment for data analysis machine learning and algorithmic problem solving This comprehensive guide helps you move beyond the hype and transcend the theory by providing you with a hands on advanced study of data science Beginning with the essentials of Python in data science you will learn to manage data and perform linear algebra in Python You will move on to deriving inferences from the analysis by performing inferential statistics and mining data to reveal hidden patterns and trends You will use the matplotlib library to create high end visualizations in Python and uncover the fundamentals of machine learning Next you will apply the linear regression technique and also learn to apply the logistic regression technique to your applications before creating recommendation engines with various collaborative filtering algorithms and improving your predictions by applying the ensemble methods Finally you will perform K means clustering along with an analysis of unstructured data with different text mining techniques and leveraging the power of Python in big data analytics

Style and approach This book is an easy to follow comprehensive guide on data science using Python The topics covered in the book can all be used in real world scenarios

Mastering PyCharm Quazi Nafiul Islam, 2015-10-23 Use PyCharm with fluid efficiency to write idiomatic python code About This Book Understand how PyCharm works and how you can leverage its strength to develop applications quickly Master PyCharm s editor to get a fast workflow Full of examples and illustrations that focus on the practical aspects of using PyCharm Who This Book Is For If you know PyCharm but want to understand it better and leverage its more powerful but less obvious tool set this is the book for you Serving as a launch pad for those who want to master PyCharm and completely harness its best features it would be helpful if you were familiar with some of Python s most prominent tools such as virtualenv and Python s popular docstring formats such as reStructuredText and EpyType What You Will Learn Understand the internal workings of the IntelliJ Platform Leverage PyCharm s powerful search tools and learn which ones are the best for you and your workflow Customize PyCharm s enhanced Python interpreter and its inbuilt terminal Develop web applications quickly and easily with different frameworks such as Flask and Django Understand how code completion works in PyCharm for Python and JavaScript In Detail PyCharm is addictive with powerful and configurable code completion superb editing tools top notch support diverse plugins and a vibrant ecosystem to boot

Learning how PyCharm works and maximising the synergy of its powerful tools will help you to rapidly develop applications. From leveraging the power of the editor to understanding PyCharm's internals, this book will give you a comprehensive view of PyCharm and allow you to make your own choices about which workflow and tools are best for you. You will start by getting comfortable with PyCharm and making it look exactly like you want. You can customize the tools and taskbars to suit individual developers' coding styles. You also learn how to assign keyboard shortcuts. You will master debugging by inserting breakpoints, collecting runtime data, and debugging from the console. You will understand how PyCharm works underneath and how plugins such as Codemap, Vim, Bitbucket Assets compressor, markdown, bash file shortcut translator, and gitignore leverage the power of the IntelliJ platform. You will become comfortable using the VCS interface in PyCharm and see the benefits of using it for some simple tasks as well as some more complex tasks such as partial commits using changelists. You will take an in-depth look at the various tools in PyCharm, improving your workflow drastically. Finally, you will deploy powerful PyCharm tools for Django, Flask, GAE, and Pyramid Development, becoming well acquainted with PyCharm's toolset for web development with popular platforms. Packed with insider tricks, this book will help you boost productivity with PyCharm. Style and approach: An easy-to-follow guide with plenty of examples and screenshots. Each topic starts off with the goal of enhancing or changing a part of PyCharm to make it suit your needs.

Julia for Data Science Anshul Joshi, 2016-09-30. Explore the world of data science from scratch with Julia by your side. About This Book: An in-depth exploration of Julia's growing ecosystem of packages. Work with the most powerful open-source libraries for deep learning, data wrangling, and data visualization. Learn about deep learning using Mocha.jl and give speed and high performance to data analysis on large data sets. Who This Book Is For: This book is aimed at data analysts and aspiring data scientists who have a basic knowledge of Julia or are completely new to it. The book also appeals to those competent in R and Python and wish to adopt Julia to improve their skills set in Data Science. It would be beneficial if the readers have a good background in statistics and computational mathematics. What You Will Learn: Apply statistical models in Julia for data-driven decisions. Understanding the process of data munging and data preparation using Julia. Explore techniques to visualize data using Julia and D3-based packages. Using Julia to create self-learning systems using cutting-edge machine learning algorithms. Create supervised and unsupervised machine learning systems using Julia. Also explore ensemble models. Build a recommendation engine in Julia. Dive into Julia's deep learning framework and build a system using Mocha.jl. In Detail: Julia is a fast and high-performing language that's perfectly suited to data science with a mature package ecosystem and is now feature-complete. It is a good tool for a data science practitioner. There was a famous post at Harvard Business Review that Data Scientist is the sexiest job of the 21st century (<https://hbr.org/2012/10/data-scientist-the-sexiest-job-of-the-21st-century>). This book will help you get familiarised with Julia's rich ecosystem, which is continuously evolving, allowing you to stay on top of your game. This book contains the essentials of data science and gives a high-level overview of advanced statistics and techniques. You will dive in

and will work on generating insights by performing inferential statistics and will reveal hidden patterns and trends using data mining This has the practical coverage of statistics and machine learning You will develop knowledge to build statistical models and machine learning systems in Julia with attractive visualizations You will then delve into the world of Deep learning in Julia and will understand the framework Mocha.jl with which you can create artificial neural networks and implement deep learning This book addresses the challenges of real world data science problems including data cleaning data preparation inferential statistics statistical modeling building high performance machine learning systems and creating effective visualizations using Julia Style and approach This practical and easy to follow yet comprehensive guide will get you learning about Julia with respect to data science Each topic is explained thoroughly and placed in context For the more inquisitive we dive deeper into the language and its use case This is the one true guide to working with Julia in data science

Principles of Data Science Sinan Ozdemir, 2016-12-16 Learn the techniques and math you need to start making sense of your data About This Book Enhance your knowledge of coding with data science theory for practical insight into data science and analysis More than just a math class learn how to perform real world data science tasks with R and Python Create actionable insights and transform raw data into tangible value Who This Book Is For You should be fairly well acquainted with basic algebra and should feel comfortable reading snippets of R Python as well as pseudo code You should have the urge to learn and apply the techniques put forth in this book on either your own data sets or those provided to you If you have the basic math skills but want to apply them in data science or you have good programming skills but lack math then this book is for you What You Will Learn Get to know the five most important steps of data science Use your data intelligently and learn how to handle it with care Bridge the gap between mathematics and programming Learn about probability calculus and how to use statistical models to control and clean your data and drive actionable results Build and evaluate baseline machine learning models Explore the most effective metrics to determine the success of your machine learning models Create data visualizations that communicate actionable insights Read and apply machine learning concepts to your problems and make actual predictions In Detail Need to turn your skills at programming into effective data science skills *Principles of Data Science* is created to help you join the dots between mathematics programming and business analysis With this book you'll feel confident about asking and answering complex and sophisticated questions of your data to move from abstract and raw statistics to actionable ideas With a unique approach that bridges the gap between mathematics and computer science this book takes you through the entire data science pipeline Beginning with cleaning and preparing data and effective data mining strategies and techniques you'll move on to build a comprehensive picture of how every piece of the data science puzzle fits together Learn the fundamentals of computational mathematics and statistics as well as some pseudocode being used today by data scientists and analysts You'll get to grips with machine learning discover the statistical models that help you take control and navigate even the densest datasets and find out how to create powerful visualizations that communicate

what your data means Style and approach This is an easy to understand and accessible tutorial It is a step by step guide with use cases examples and illustrations to get you well versed with the concepts of data science Along with explaining the fundamentals the book will also introduce you to slightly advanced concepts later on and will help you implement these techniques in the real world

Алгоритмы Data Science Пётр Пылов, Владимир Садовников, Андрей Протодьяконов, 2022-08-02 Data Science

Разработка AI-системы для превентивного определения заболеваний сердечно-сосудистой системы Пётр Пылов, Андрей Протодьяконов, Роман Майтак, Анна Дягилева, 2024-07-17

Основы работы с моделями машинного и глубокого обучения Пётр Пылов, Роман Майтак, Анна Дягилева, 2023-09-09 Data Science

Методы восстановления непараметрической регрессии в условиях несбалансированных данных Пётр Пылов, Роман Майтак, Анна Дягилева, Анжелика Салычева, 2024-07-17

Python Data Science For Beginners 2021 Steven Williams, 2020-11-27 If you want to learn more about Data Science or how to master it with the Python Programming Language Step by Step then keep reading Data Science is one of the biggest buzzwords in the business world nowadays Many businesses know the importance of collecting information but as they can collect so much data in a short period the real question is what is the next step Data Science includes all the different steps that you take with the data collecting and cleaning them if they come from more than one source analyzing them applying Machine Learning algorithms and models and then presenting your findings from the analysis with some good Data Visualizations You will learn about the main steps that are needed to correctly implement Data Science techniques and the algorithms to help you sort through the data and see some amazing results Some of the topics that we will discuss inside include A thorough and simple explanation of data science and the way it works Basics of data science and fundamental skills you need to get started A blueprint for the most used frameworks for Python data science How to process and understand the data and design your own projects What data science is all about and why so many companies are using it to give them a competitive edge Why Python and how to use it to implement Data Science What is the intersection between Machine Learning and Data Science and how to combine them Functions and Modules in Python Data Aggregation and Group Operations Interaction with databases and data in the cloud And Much More Even if you have never implemented Data Science techniques learning them is easier than it looks You just need the right guidance And Python Data Science provides all the knowledge you need in a simple and practical way Regardless of your previous experience you will learn the techniques to manipulate and process datasets the principles of Python programming and its most important real world applications Would You Like To Know More Scroll up and click on the BUY NOW button to get your copy now

Python Programming Andrew Park, 2020-11-14 If you want to learn Python in one week or less and learn it well with useful applications to Data Analysis Machine Learning and Data Science then keep reading Python is one of the most beloved programming languages in any circle of programmers Software engineers hackers and Data Scientists alike are in love with

the versatility that Python has to offer Besides the Object Oriented feature of Python coupled with its flexibility is also one of the major attractions for this language That s the reason why Python is a perfect fit with Data Analysis Machine Learning and Data Science Data is the future The world of technology as we know it is evolving towards an open source platform where people share ideas freely This is seen as the first step towards the decentralization of ideas and eliminating unnecessary monopolies Therefore the data tools and techniques used in the analysis are easily available for anyone to interpret data sets and get relevant explanations The goal of this 4 in 1 bundle is simple explaining everything you need to know to Master Python With a special emphasis on the main steps that are needed to correctly implement Data Analysis and Machine Learning algorithms In manuscript one Python for Beginners you will learn How to install Python What are the different Python Data Types and Variables Basic Operators of Python Language Data Structures and Functions Conditional and Loops in Python And Much More In manuscript two Python Advanced Guide you will master Object Oriented Programming OOP Inheritance and Polymorphism Essential Programming Tools Exception Handling Working with Files And Much More In manuscript three Python for Data Analysis you will learn What Data Analysis is all about and why businesses are investing in this sector The 5 steps of a Data Analysis The 7 Python libraries that make Python one of the best choices for Data Analysis Pandas Jupyter and PyTorch And Much More In manuscript four Applications to Data Science you will understand How Data Visualization and Matplotlib can help you to understand the data you are working with Neural Networks Decision Trees What industries are using data to improve their business with 14 real world applications And So Much More Where most books about Python programming are theoretical and have few or little practical examples this book provides lots of simple step by step examples and illustrations that are used to underline key concepts and help improve your understanding Furthermore topics are carefully selected to give you broad exposure to Python while not overwhelming you with too much information Also the outputs of ALL the examples are provided immediately so you do not have to wait till you have access to your computer to test the examples Even if you have never coded before this is the perfect guide because it breaks down complex concepts into simple steps and in a concise and simple way that fits well with beginners Regardless of your previous experience you will learn the steps of Data Analysis how to implement them and the most important real world applications Would you like to know more Scroll Up and Click the BUY NOW Button to Get Your Copy **Python for Data Science** Kok Keong Teo,2023-09-19 Embark on a Transformative Data Science Adventure with Python for Data Science Zero to Hero in 10 Days Dive into Python s incredible capabilities for data analysis and machine learning even if you re a complete beginner In just a span of 10 days this immersive guide will empower you to evolve from a novice to a skilled data science practitioner And the best part We ve made it even more accessible for you All the code examples featured in this book will be readily available on GitHub Just head over to the Python for Data Science Zero to Hero in 10 Days Facebook page where we ll provide the link for your convenience About the Author Teo Kok Keong holds a Master of Engineering degree from Nanyang

Technological University where he specialized in Time series Prediction using Wavelet Neural Network for his thesis With a diverse career path spanning research software development and teaching in institutes of higher learning Teo has accumulated a wealth of experience Over the course of a decade he has been dedicated to education within the School of Engineering where he has not only delivered instruction but also contributed to the development of curricula His teaching portfolio ranges from Microcontroller and C C Programming to Data Science catering to both full time students and part time adult learners

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Python for Data Science Jarrel E.,2023-11-15 Dive into the world of data science with Python for Data Science A Practical Approach to Machine Learning This comprehensive guide is meticulously crafted to

provide you with the knowledge and skills necessary to excel in the ever evolving field of data science Authored by a seasoned writer who understands the nuances of the craft this book is a masterpiece in itself delivering a deep dive into the realm of Python and its application in data science The book s primary focus is on machine learning making it an invaluable resource for those seeking to harness the power of data to make informed decisions In Python for Data Science you ll find a well structured and organized approach to learning Python with an emphasis on its real world applications The book presents the subject matter with clarity and precision ensuring that every concept is explained in a coherent and logical manner Key highlights of the book include A comprehensive introduction to Python including its syntax and core libraries In depth coverage of data manipulation and analysis using popular libraries like Pandas and NumPy A thorough exploration of machine learning algorithms from the fundamentals to advanced techniques Hands on examples and practical exercises to reinforce your understanding Real world case studies and projects that demonstrate how Python can be used to solve complex data science challenges Whether you re a novice looking to embark on a data science journey or an experienced professional seeking to expand your skill set this book offers something for everyone Its professionally written content is your gateway to mastering Python and machine learning for data science Python for Data Science A Practical Approach to Machine Learning is more than just a book it s a comprehensive resource that empowers you to become a proficient data scientist Dive into the world of data with confidence and transform your career with the knowledge and expertise gained from this remarkable guide

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Mastering Python Data Analysis

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The Top Books of the Year Mastering Python For Data Science By Samir Madhavan The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the captivating narratives that have charmed audiences this year.

Mastering Python For Data Science By Samir Madhavan : Colleen Hoover "It Ends with Us" This poignant tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph.

Mastering Python For Data Science By Samir Madhavan : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery.

Mastering Python For Data Science By Samir Madhavan : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting.

These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered.

The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts.

The Secret History is a brilliant and suspenseful novel that will keep you wondering until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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