



Community Experience Distilled

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

Steven Williams



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 dataAbout 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 learningWho This Book Is ForIf 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 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

Протодяконов, 2022-08-02 Data Science 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

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Python Pandas features the DataFrame for efficient storage and manipulation of labeled columnar data in Python Matplotlib includes capabilities for a flexible range of data visualizations in Python Scikit Learn for efficient and clean Python implementations of the most important and established machine learning algorithms

Mastering Python Data Analysis Magnus Vilhelm Persson, Luiz Felipe Martins, 2016-06-27 Become an expert at using Python for advanced statistical analysis of data using real world examples About This Book Clean format and explore data using graphical and numerical summaries Leverage the IPython environment to efficiently analyze data with Python Packed with easy to follow examples to develop advanced computational skills for the analysis of complex data Who This Book Is For If you are a competent Python developer who wants to take your data analysis skills to the next level by solving complex problems then this advanced guide is for you Familiarity with the basics of applying Python libraries to data sets is assumed What You Will Learn Read sort and map various data into Python and Pandas Recognise patterns so you can understand and explore data Use statistical models to discover patterns in data Review classical statistical inference using Python Pandas and SciPy Detect similarities and differences in data with clustering Clean your data to make it useful Work in Jupyter Notebook to produce publication ready figures to be included in reports In Detail Python a multi paradigm programming language has become the language of choice for data scientists for data analysis visualization and machine learning Ever imagined how to become an expert at effectively approaching data analysis problems solving them and extracting all of the available information from your data Well look no further this is the book you want Through this comprehensive guide you will explore data and present results and conclusions from statistical analysis in a meaningful way You ll be able to quickly and accurately perform the hands on sorting reduction and subsequent analysis and fully appreciate how data analysis methods can support business decision making You ll start off by learning about the tools available for data analysis in Python and will then explore the statistical models that are used to identify patterns in data Gradually you ll move on to review statistical inference using Python Pandas and SciPy After that we ll focus on performing regression using computational tools and you ll get to understand the problem of identifying clusters in data in an algorithmic way Finally we delve into advanced techniques to quantify cause and effect using Bayesian methods and you ll discover how to use Python s tools for supervised machine learning Style and approach This book takes a step by step approach to reading processing and analyzing data in Python using various methods and tools Rich in examples each topic connects to real world examples and retrieves data directly online where possible With this book you are given the knowledge and tools to explore any data on your own encouraging a curiosity befitting all data scientists

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

Data Science for Beginners Andrew Park,2020-01-26 Master the world of Python Data Analysis Machine Learning and Data Science with this comprehensive 4 in 1 bundle Do you want to learn more about the amazing world of Data Science Or are you interested in becoming a Python geek Then keep reading Created with the beginner in mind this powerful bundle delves into the fundamentals behind Python and Data Science from basic code and concepts to complex Neural Networks and data manipulation Inside you ll discover everything you need to know to get started with Python and Data Science and begin your journey to success In book one PYTHON FOR BEGINNERS you will learn How to install Python What are the different Python Data Types Variables and Basic Operators Data Structures Functions and Files Conditional and Loops in Python Object Oriented Programming OOP Inheritance and Polymorphism Essential Programming Tools and Exception Handling An application to Decision Trees And Much More In book two 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 Neural Network The 7 Python libraries that make Python one of the best choices for Data Analysis How Data Visualization and Matplotlib can help you to understand the data you are working with Some of the main industries that are using data to improve their business with 14 real world applications And Much More In book three PYTHON MACHINE LEARNING you will learn What is Machine Learning and how it is applied in real world situations Understanding the differences between Machine Learning Deep Learning and Artificial Intelligence Machine learning training models Regression techniques and Linear Regression in Python How to use Lists and Modules in Python The 12 essential libraries for Machine Learning in Python Artificial Neural Networks And Much More And in book four PYTHON DATA SCIENCE you will learn 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 The main Data Structures Object Oriented Programming Functions and Modules in Python with practical codes and exercises The 7 most important algorithms and models in Data Science Data Aggregation Group Operations Databases and Data in the Cloud 9 important Data Mining techniques in Data Science And So Much More Whether you re a complete beginner or a programmer looking to improve his skillset Data Science for Beginners is your all in one solution to mastering the world of Python and Data Science Would you like to know more Scroll Up and Click on the BUY

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and transform your career with the knowledge and expertise gained from this remarkable guide **Python Data Science** Dennis Field,2022-05-08 Continue reading if you want to learn more about Data Science and how to master it using the Python Programming Language Data Science is now one of the most used terms in the corporate sector Many companies understand the value of information collection but since they can gather so much data quickly the real issue is what is the next step Data Science encompasses all of the processes you take with data such as gathering and cleaning it if it comes from several sources analyzing it using Machine Learning algorithms and models and presenting your results with some nice data visualization And this is what Python Data Science will teach you You will learn about the primary processes required to appropriately use Data Science methodologies and the algorithms that will assist you in sorting through the data and producing some remarkable outcomes Some of the topics we will cover include What is data science all about and why do so many businesses embrace it to gain a competitive advantage Why Python and how can it be used to accomplish Data Science 9 essential Data Mining Techniques for Data Science Interaction between databases and cloud data And Much More Even if you have never used Data Science methods before understanding them is simpler than it seems All you need is the correct direction And Python Data Science teaches you all you need to know straightforwardly and practically Regardless of your prior knowledge you will learn how to manage and analyze datasets and the fundamentals of Python programming and its most significant real world applications Do you want to learn more To buy your book immediately scroll to the top of the page and click the Buy now option **Python for Data Science For Dummies** John Paul Mueller, Luca Massaron,2019-01-25 The fast and easy way to learn Python programming and statistics Python is a general purpose programming language created in the late 1980s and named after Monty Python that s used by thousands of people to do things from testing microchips at Intel to powering Instagram to building video games with the PyGame library Python For Data Science For Dummies is written for people who are new to data analysis and discusses the basics of Python data analysis programming and statistics The book also discusses Google Colab which makes it possible to write Python code in the cloud Get started with data science and Python Visualize information Wrangle data Learn from data The book provides the statistical background needed to get started in data science programming including probability random distributions hypothesis testing confidence intervals and building regression models for prediction **Mastering Python and AI for Data Science** Precious Anusiem,2024-10-23 Think data science is complicated Think again without this guide your next career opportunity could slip through your fingers Benefits Get a step by step guide to mastering Python for data science Understand AI and machine learning to solve real world problems Learn the key techniques for analyzing data and driving impactful decisions Discover industry secrets that professionals use to keep ahead of the competition From basic concepts to advanced applications this book is your ultimate guide to mastering data science using Python and AI Learn to analyze massive datasets create predictive models and gain a deep understanding of how AI can be applied in any industry Whether you re

transitioning into data science or want to level up your skills this guide will give you the tools to succeed and generate massive returns from your data driven strategies Don t let data science scare you Get your copy now and stay ahead of the curve Plus subscribe via the QR code to win 10 000 and access exclusive bonus content **Python** Oliver Soranson,2020-10-26 Master the world of Python programming with this ultimate collection Are you an aspiring or established programmer and you want to make the most of Python Are you searching for simple engaging and comprehensive beginner s introductions to Python programming neural networks and more Then keep reading Combining an incredible 537 pages of cutting edge information this brilliant collection offers you the ultimate introduction to the world of Python Learn from programming basics to more advanced concepts machine learning data analysis data science and so much more this complete bundle will show you how to master this amazing skill with step by step instructions

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Easy to Learn Web Programming Software Development Objected Oriented Programming OOP Artificial Intelligence and Machine Learning In this collection you ll discover

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- 3 Machine Learning With Python** you ll break down the details of Python s machine learning capabilities with practical advice and detailed overviews Terminology and notations for machine learning python Employing python for machine learning Pandas Jupyter Ipython And so much more
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- 6 Python Data Science Handbook** you ll find an explanation of data science with Python and how you can harness this skill for advanced programming Advanced learning of python for data science Advanced topics of data science Advanced NumPy and pandas for data science Data acquiring for data science Ethics privacy of big data And so much more

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