



# Getting Started with Python Data Analysis

By Phuong Vo.T.H, Martin Czygan

[Download now](#)

[Read Online](#) 

**Getting Started with Python Data Analysis** By Phuong Vo.T.H, Martin Czygan

**Learn to use powerful Python libraries for effective data processing and analysis**

## About This Book

- Learn the basic processing steps in data analysis and how to use Python in this area through supported packages, especially Numpy, Pandas, and Matplotlib
- Create, manipulate, and analyze your data to extract useful information to optimize your system
- A hands-on guide to help you learn data analysis using Python

## Who This Book Is For

If you are a Python developer who wants to get started with data analysis and you need a quick introductory guide to the python data analysis libraries, then this book is for you.

## What You Will Learn

- Understand the importance of data analysis and get familiar with its processing steps
- Get acquainted with Numpy to use with arrays and array-oriented computing in data analysis
- Create effective visualizations to present your data using Matplotlib
- Process and analyze data using the time series capabilities of Pandas
- Interact with different kind of database systems, such as file, disk format, Mongo, and Redis
- Apply the supported Python package to data analysis applications through examples
- Explore predictive analytics and machine learning algorithms using Scikit-learn, a Python library

## In Detail

Data analysis is the process of applying logical and analytical reasoning to study each component of data. Python is a multi-domain, high-level, programming language. It's often used as a scripting language because of its forgiving syntax and operability with a wide variety of different eco-systems. Python has powerful standard libraries or toolkits such as Pylearn2 and Hebel, which offers a fast, reliable, cross-platform environment for data analysis.

With this book, we will get you started with Python data analysis and show you what its advantages are.

The book starts by introducing the principles of data analysis and supported libraries, along with NumPy basics for statistic and data processing. Next it provides an overview of the Pandas package and uses its powerful features to solve data processing problems.

Moving on, the book takes you through a brief overview of the Matplotlib API and some common plotting functions for DataFrame such as plot. Next, it will teach you to manipulate the time and data structure, and load and store data in a file or database using Python packages. The book will also teach you how to apply powerful packages in Python to process raw data into pure and helpful data using examples.

Finally, the book gives you a brief overview of machine learning algorithms, that is, applying data analysis results to make decisions or build helpful products, such as recommendations and predictions using scikit-learn.

## Style and approach

This is an easy-to-follow, step-by-step guide to get you familiar with data analysis and the libraries supported by Python. Topics are explained with real-world examples wherever required.



[Download Getting Started with Python Data Analysis ...pdf](#)



[Read Online Getting Started with Python Data Analysis ...pdf](#)

# Getting Started with Python Data Analysis

By Phuong Vo.T.H, Martin Czygan

**Getting Started with Python Data Analysis** By Phuong Vo.T.H, Martin Czygan

**Learn to use powerful Python libraries for effective data processing and analysis**

## About This Book

- Learn the basic processing steps in data analysis and how to use Python in this area through supported packages, especially Numpy, Pandas, and Matplotlib
- Create, manipulate, and analyze your data to extract useful information to optimize your system
- A hands-on guide to help you learn data analysis using Python

## Who This Book Is For

If you are a Python developer who wants to get started with data analysis and you need a quick introductory guide to the python data analysis libraries, then this book is for you.

## What You Will Learn

- Understand the importance of data analysis and get familiar with its processing steps
- Get acquainted with Numpy to use with arrays and array-oriented computing in data analysis
- Create effective visualizations to present your data using Matplotlib
- Process and analyze data using the time series capabilities of Pandas
- Interact with different kind of database systems, such as file, disk format, Mongo, and Redis
- Apply the supported Python package to data analysis applications through examples
- Explore predictive analytics and machine learning algorithms using Scikit-learn, a Python library

## In Detail

Data analysis is the process of applying logical and analytical reasoning to study each component of data. Python is a multi-domain, high-level, programming language. It's often used as a scripting language because of its forgiving syntax and operability with a wide variety of different eco-systems. Python has powerful standard libraries or toolkits such as Pylearn2 and Hebel, which offers a fast, reliable, cross-platform environment for data analysis.

With this book, we will get you started with Python data analysis and show you what its advantages are.

The book starts by introducing the principles of data analysis and supported libraries, along with NumPy basics for statistic and data processing. Next it provides an overview of the Pandas package and uses its powerful features to solve data processing problems.

Moving on, the book takes you through a brief overview of the Matplotlib API and some common plotting functions for DataFrame such as plot. Next, it will teach you to manipulate the time and data structure, and load and store data in a file or database using Python packages. The book will also teach you how to apply

powerful packages in Python to process raw data into pure and helpful data using examples.

Finally, the book gives you a brief overview of machine learning algorithms, that is, applying data analysis results to make decisions or build helpful products, such as recommendations and predictions using scikit-learn.

## Style and approach

This is an easy-to-follow, step-by-step guide to get you familiar with data analysis and the libraries supported by Python. Topics are explained with real-world examples wherever required.

### **Getting Started with Python Data Analysis By Phuong Vo.T.H, Martin Czygan Bibliography**

- Sales Rank: #1236041 in Books
- Published on: 2015-10
- Released on: 2015-11-04
- Original language: English
- Number of items: 1
- Dimensions: 9.25" h x .43" w x 7.50" l, .73 pounds
- Binding: Paperback
- 188 pages

 [Download Getting Started with Python Data Analysis ...pdf](#)

 [Read Online Getting Started with Python Data Analysis ...pdf](#)

## Download and Read Free Online Getting Started with Python Data Analysis By Phuong Vo.T.H, Martin Czygan

---

### Editorial Review

#### About the Author

##### **Phuong Vo.T.H**

Phuong Vo.T.H has a MSc degree in computer science, which is related to machine learning. After graduation, she continued to work in some companies as a data scientist. She has experience in analyzing users' behavior and building recommendation systems based on users' web histories. She loves to read machine learning and mathematics algorithm books, as well as data analysis articles.

##### **Martin Czygan**

Martin Czygan studied German literature and computer science in Leipzig, Germany. He has been working as a software engineer for more than 10 years. For the past eight years, he has been diving into Python, and is still enjoying it. In recent years, he has been helping clients to build data processing pipelines and search and analytics systems. His consultancy can be found at <http://www.xvfz.net>.

### Users Review

#### From reader reviews:

##### **Dennis Scott:**

This Getting Started with Python Data Analysis are usually reliable for you who want to be considered a successful person, why. The key reason why of this Getting Started with Python Data Analysis can be among the great books you must have is definitely giving you more than just simple studying food but feed you with information that probably will shock your previous knowledge. This book is usually handy, you can bring it everywhere you go and whenever your conditions at e-book and printed types. Beside that this Getting Started with Python Data Analysis giving you an enormous of experience for example rich vocabulary, giving you trial run of critical thinking that could it useful in your day exercise. So , let's have it appreciate reading.

##### **Shawn Croll:**

This book untitled Getting Started with Python Data Analysis to be one of several books that will best seller in this year, that's because when you read this publication you can get a lot of benefit onto it. You will easily to buy this book in the book retailer or you can order it by way of online. The publisher of the book sells the e-book too. It makes you easier to read this book, since you can read this book in your Smart phone. So there is no reason to you personally to past this publication from your list.

**Jennifer Tomasini:**

Do you one of the book lovers? If yes, do you ever feeling doubt while you are in the book store? Try to pick one book that you never know the inside because don't assess book by its deal with may doesn't work is difficult job because you are scared that the inside maybe not since fantastic as in the outside appearance likes. Maybe you answer can be Getting Started with Python Data Analysis why because the amazing cover that make you consider concerning the content will not disappoint you actually. The inside or content is actually fantastic as the outside or even cover. Your reading 6th sense will directly show you to pick up this book.

**Evelyn Montgomery:**

On this era which is the greater individual or who has ability to do something more are more important than other. Do you want to become one of it? It is just simple way to have that. What you have to do is just spending your time very little but quite enough to possess a look at some books. On the list of books in the top list in your reading list will be Getting Started with Python Data Analysis. This book that is certainly qualified as The Hungry Hills can get you closer in turning into precious person. By looking right up and review this e-book you can get many advantages.

**Download and Read Online Getting Started with Python Data Analysis By Phuong Vo.T.H, Martin Czygan #2XTZFB9NIEK**

# **Read Getting Started with Python Data Analysis By Phuong Vo.T.H, Martin Czygan for online ebook**

Getting Started with Python Data Analysis By Phuong Vo.T.H, Martin Czygan Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Getting Started with Python Data Analysis By Phuong Vo.T.H, Martin Czygan books to read online.

## **Online Getting Started with Python Data Analysis By Phuong Vo.T.H, Martin Czygan ebook PDF download**

**Getting Started with Python Data Analysis By Phuong Vo.T.H, Martin Czygan Doc**

**Getting Started with Python Data Analysis By Phuong Vo.T.H, Martin Czygan MobiPocket**

**Getting Started with Python Data Analysis By Phuong Vo.T.H, Martin Czygan EPub**

**2XTZFB9NIEK: Getting Started with Python Data Analysis By Phuong Vo.T.H, Martin Czygan**