



# Python for Probability, Statistics, and Machine Learning

By José Unpingco

Download now

Read Online 

## Python for Probability, Statistics, and Machine Learning By José Unpingco

This book covers the key ideas that link probability, statistics, and machine learning illustrated using Python modules in these areas. The entire text, including all the figures and numerical results, is reproducible using the Python codes and their associated Jupyter/IPython notebooks, which are provided as supplementary downloads. The author develops key intuitions in machine learning by working meaningful examples using multiple analytical methods and Python codes, thereby connecting theoretical concepts to concrete implementations. Modern Python modules like Pandas, Sympy, and Scikit-learn are applied to simulate and visualize important machine learning concepts like the bias/variance trade-off, cross-validation, and regularization. Many abstract mathematical ideas, such as convergence in probability theory, are developed and illustrated with numerical examples. This book is suitable for anyone with an undergraduate-level exposure to probability, statistics, or machine learning and with rudimentary knowledge of Python programming.

 [Download Python for Probability, Statistics, and Machine Le ...pdf](#)

 [Read Online Python for Probability, Statistics, and Machine ...pdf](#)

# Python for Probability, Statistics, and Machine Learning

*By José Unpingco*

## Python for Probability, Statistics, and Machine Learning By José Unpingco

This book covers the key ideas that link probability, statistics, and machine learning illustrated using Python modules in these areas. The entire text, including all the figures and numerical results, is reproducible using the Python codes and their associated Jupyter/IPython notebooks, which are provided as supplementary downloads. The author develops key intuitions in machine learning by working meaningful examples using multiple analytical methods and Python codes, thereby connecting theoretical concepts to concrete implementations. Modern Python modules like Pandas, Sympy, and Scikit-learn are applied to simulate and visualize important machine learning concepts like the bias/variance trade-off, cross-validation, and regularization. Many abstract mathematical ideas, such as convergence in probability theory, are developed and illustrated with numerical examples. This book is suitable for anyone with an undergraduate-level exposure to probability, statistics, or machine learning and with rudimentary knowledge of Python programming.

## Python for Probability, Statistics, and Machine Learning By José Unpingco Bibliography

- Sales Rank: #707287 in Books
- Published on: 2016-03-17
- Original language: English
- Number of items: 1
- Dimensions: 9.21" h x .69" w x 6.14" l, .0 pounds
- Binding: Hardcover
- 276 pages

 [Download Python for Probability, Statistics, and Machine Le ...pdf](#)

 [Read Online Python for Probability, Statistics, and Machine ...pdf](#)

## Download and Read Free Online Python for Probability, Statistics, and Machine Learning By José Unpingco

---

### Editorial Review

From the Back Cover

This book covers the key ideas that link probability, statistics, and machine learning illustrated using Python modules in these areas. The entire text, including all the figures and numerical results, is reproducible using the Python codes and their associated Jupyter/IPython notebooks, which are provided as supplementary downloads. The author develops key intuitions in machine learning by working meaningful examples using multiple analytical methods and Python codes, thereby connecting theoretical concepts to concrete implementations. Modern Python modules like Pandas, Sympy, and Scikit-learn are applied to simulate and visualize important machine learning concepts like the bias/variance trade-off, cross-validation, and regularization. Many abstract mathematical ideas, such as convergence in probability theory, are developed and illustrated with numerical examples. This book is suitable for anyone with an undergraduate-level exposure to probability, statistics, or machine learning and with rudimentary knowledge of Python programming.

- Explains how to simulate, conceptualize, and visualize random statistical processes and apply machine learning methods;
- Connects to key open-source Python communities and corresponding modules focused on the latest developments in this area;
- Outlines probability, statistics, and machine learning concepts using an intuitive visual approach, backed up with corresponding visualization codes.

About the Author

Dr. José Unpingco completed his PhD from the University of California, San Diego in 1998 and has since worked in industry as an engineer, consultant, and instructor on a wide-variety of advanced data processing and analysis topics, with deep experience in multiple machine learning technologies. He was the onsite technical director for large-scale Signal and Image Processing for the Department of Defense (DoD) where he also spearheaded the DoD-wide adoption of scientific Python. As the primary scientific Python instructor for the DoD, he has taught Python to over 600 scientists and engineers. Dr. Unpingco is currently the Technical Director for Data Science for a non-profit Medical Research Organization in San Diego, California.

### Users Review

**From reader reviews:**

**Madeline Pastrana:**

Reading a book tends to be new life style on this era globalization. With looking at you can get a lot of information that will give you benefit in your life. Having book everyone in this world can share their idea. Ebooks can also inspire a lot of people. Lots of author can inspire all their reader with their story or perhaps their experience. Not only the story that share in the ebooks. But also they write about the knowledge about something that you need case in point. How to get the good score toefl, or how to teach your sons or daughters, there are many kinds of book which exist now. The authors these days always try to improve their

skill in writing, they also doing some analysis before they write for their book. One of them is this Python for Probability, Statistics, and Machine Learning.

**Pauline Stern:**

The book untitled Python for Probability, Statistics, and Machine Learning contain a lot of information on that. The writer explains your girlfriend idea with easy method. The language is very simple to implement all the people, so do not really worry, you can easy to read this. The book was authored by famous author. The author will bring you in the new age of literary works. It is possible to read this book because you can read on your smart phone, or device, so you can read the book in anywhere and anytime. If you want to buy the e-book, you can open up their official web-site in addition to order it. Have a nice study.

**Belinda Tenney:**

This Python for Probability, Statistics, and Machine Learning is new way for you who has attention to look for some information because it relief your hunger of knowledge. Getting deeper you on it getting knowledge more you know or else you who still having tiny amount of digest in reading this Python for Probability, Statistics, and Machine Learning can be the light food for you personally because the information inside this particular book is easy to get simply by anyone. These books build itself in the form and that is reachable by anyone, yep I mean in the e-book form. People who think that in guide form make them feel sleepy even dizzy this book is the answer. So there is no in reading a guide especially this one. You can find what you are looking for. It should be here for you actually. So , don't miss the item! Just read this e-book style for your better life and also knowledge.

**Anne Shibata:**

Don't be worry if you are afraid that this book will certainly filled the space in your house, you may have it in e-book technique, more simple and reachable. This kind of Python for Probability, Statistics, and Machine Learning can give you a lot of close friends because by you taking a look at this one book you have thing that they don't and make an individual more like an interesting person. This specific book can be one of a step for you to get success. This publication offer you information that probably your friend doesn't know, by knowing more than other make you to be great men and women. So , why hesitate? We need to have Python for Probability, Statistics, and Machine Learning.

**Download and Read Online Python for Probability, Statistics, and Machine Learning By José Unpingco #OT6NXBR97A1**

# **Read Python for Probability, Statistics, and Machine Learning By José Unpingco for online ebook**

Python for Probability, Statistics, and Machine Learning By José Unpingco 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 Python for Probability, Statistics, and Machine Learning By José Unpingco books to read online.

## **Online Python for Probability, Statistics, and Machine Learning By José Unpingco ebook PDF download**

### **Python for Probability, Statistics, and Machine Learning By José Unpingco Doc**

**Python for Probability, Statistics, and Machine Learning By José Unpingco Mobipocket**

**Python for Probability, Statistics, and Machine Learning By José Unpingco EPub**

**OT6NXBR97A1: Python for Probability, Statistics, and Machine Learning By José Unpingco**