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Autore	Idris Ivan
Titolo	Learning NumPy Array : supercharge your scientific Python computations by understanding how to use the NumPy library effectively // Ivan Idris ; Duraïd Fatouhi, cover image
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ISBN	1-78398-391-4
Edizione	[1st edition]
Descrizione fisica	1 online resource (164 p.)
Collana	Community experience distilled
Disciplina	005.133
Soggetti	Python (Computer program language) Numerical analysis - Data processing Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	Cover; Copyright; Credits; About the Author; About the Reviewers; www.PacktPub.com; Table of Contents; Preface; Chapter 1: Getting Started with NumPy; Python; Installing NumPy, Matplotlib, SciPy, and IPython on Windows; Installing NumPy, Matplotlib, SciPy, and IPython on Linux; Installing NumPy, Matplotlib, and SciPy on Mac OS X; Building from source; NumPy arrays; Adding arrays; Online resources and help; Summary; Chapter 2: NumPy Basics; The NumPy array object; The advantages of using NumPy arrays; Creating a multidimensional array; Selecting array elements; NumPy numerical types Data type objectsCharacter codes; dtype constructors; dtype attributes; Creating a record data type; One-dimensional slicing and indexing; Manipulating array shapes; Stacking arrays; Splitting arrays; Array attributes; Converting arrays; Creating views and copies; Fancy indexing; Indexing with a list of locations; Indexing arrays with Booleans; Stride tricks for Sudoku; Broadcasting arrays; Summary; Chapter 3: Basic Data Analysis with NumPy; Introducing the dataset; Determining the daily temperature range; Looking for evidence of global warming; Comparing solar radiation versus temperature Analyzing wind directionAnalyzing wind speed; Analyzing precipitation and sunshine duration; Analyzing monthly precipitation in De Bilt;

Analyzing atmospheric pressure in De Bilt; Analyzing atmospheric humidity in De Bilt; Summary; Chapter 4: Simple Predictive Analytics with NumPy; Examining autocorrelation of average temperature with pandas; Describing data with pandas DataFrames; Correlating weather and stocks with pandas; Predicting temperature; Autoregressive model with lag 1; Autoregressive model with lag 2; Analysing intra-year daily average temperatures
Introducing the day-of-the-year temperature modelModeling temperature with the SciPy leastsq function; Day-of-year temperature take two; Moving-average temperature model with lag 1; The Autoregressive Moving Average temperature model; The time-dependent temperature mean adjusted autoregressive model; Outliers analysis of average De Bilt temperature; Using more robust statistics; Summary; Chapter 5: Signal Processing Techniques; Introducing the Sunspot data; Sifting continued; Moving averages; Smoothing functions; Forecasting with an ARMA model; Filtering a signal; Designing the filter Demonstrating cointegrationSummary; Chapter 6: Profiling, Debugging, and Testing; Assert functions; The assert_almost_equal function; Approximately equal arrays; The assert_array_almost_equal function; Profiling a program with IPython; Debugging with IPython; Performing Unit tests; Nose tests decorators; Summary; Chapter 7: The Scientific Python Ecosystem; Numerical integration; Interpolation; Using Cython with NumPy; Clustering stocks with scikit-learn; Detecting corners; Comparing NumPy to Blaze; Summary; Index

Sommario/riassunto

A step-by-step guide, packed with examples of practical numerical analysis that will give you a comprehensive, but concise overview of NumPy. This book is for programmers, scientists, or engineers, who have basic Python knowledge and would like to be able to do numerical computations with Python.

2. Record Nr.	UNINA9910458511003321
Autore	Yarbrough Tinsley E. <1941->
Titolo	The Rehnquist Court and the Constitution // Tinsley E. Yarbrough
Pubbl/distr/stampa	Oxford, [England] ; ; New York, New York : , : Oxford University Press, , 2000 ©2000
ISBN	1-280-45245-5 0-19-535602-0 1-60256-106-0
Descrizione fisica	1 online resource (321 p.)
Disciplina	347.7326
Soggetti	Judicial review - United States Law - Political aspects Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di bibliografia	Includes bibliographical references (p. [273]-297) and index.
Nota di contenuto	Contents; Preface; Chapter 1 The Justices; Chapter 2 The Court; Chapter 3 Governmental Power; Chapter 4 The Double Standard; Chapter 5 Unenumerated Rights; Chapter 6 The Religion Clauses; Chapter 7 Freedom of Expression and Association; Chapter 8 Criminal Justice; Chapter 9 Equal Protection; Epilogue; Bibliographical Note; Notes; Index
Sommario/riassunto	A comprehensive look at the Supreme Court Justices and their record. There are portraits of the nine who now sit on the high bench, and reviews of their nomination hearings. The workings of the Court are also explored, ranging from the selection and role of the clerks to the workload.