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Module 3: The Essentials of

NumPy. NumPy is the reason why Python stands among the ranks of R, Matlab, and Julia, as one of the most popular languages for doing STEM-related computing. It is a third-party library (i.e. it is not part of

Python's standard library) that facilitates numerical computing in Python by providing users with a versatile N-dimensional array object for storing data, and powerful mathematical functions for

operating on those arrays of numbers.

Module 3: The Essentials of NumPy - Python Like You Mean It

Build sophisticated data structures using NumPy array

with libraries such as Panda and Scikits. In Detail. In today's world of science and technology, it's all about speed and flexibility. When it comes to scientific computing, NumPy tops the list. NumPy gives you both

the speed and high
productivity you need.

NumPy Essentials by Liang-
Hua Chin, Tanmay Datta ...
NumPy Essentials Paperback –
April 28, 2016 by Leo (Liang-
Huan) Chin (Author), Tanmay

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NumPy Essentials: Chin, Leo (Liang Huan), Dutta, Tanmay

...

The NumPy module is a powerhouse of off-the-shelf functionality for mathematical tasks. It adds

greatly to Python's ease of
development. The following
is a brief summary of what
the module contains, most of
which we shall explore in
this book. A far more
detailed treatment of the
NumPy module is in the

definitive Guide to NumPy, Travis Oliphat. The NumPy API is so flexible that it has been adopted extensively by the scientific Python community as the standard API to build scientific ...

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Numpy library has some useful functions for finding insights and analyzing the data statistically. We can calculate mean, median, variance, standard deviation, compute histogram

over a set of data, and much more. numpy.mean(): with this function, we can calculate the arithmetic mean of a given array where we can also specify the axis.

Cheatsheet for NumPy:

Essential and Lesser Known

Functions

NumPy integrates C/C++ and Fortran codes in Python which execute faster as compared to Python. Python list is a heterogeneous

collection of elements whereas a Numpy array is a homogeneous collection of elements stored in contiguous memory locations which results in faster access and execution.

Numpy Essentials for Data
Science | by Harshit Tyagi

...

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Numpy Essentials¶ In [3]: import numpy as np Numpy

Arrays¶ In [4]: a =
np.array([1, 2, 3, 5, 6, 7])
# a one dimensional array or
singleton print type(a)

numpy_essentials | Invent
Besides the help() and dir()
functions in Python and

other online documentation, NumPy also provides a helper function, numpy.lookfor(), to help you find the right function you need. The argument is a string, and it can be in the form of a function name or anything

related to it.

Helper functions - NumPy

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In Python we have lists that
serve the purpose of arrays,
but they are slow to
process. NumPy aims to

provide an array object that is up to 50x faster than traditional Python lists. The array object in NumPy is called ndarray, it provides a lot of supporting functions that make working with ndarray very easy.

Arrays are very frequently used in data science, where speed and resources are very important.

Introduction to NumPy -

W3Schools

NumPy Essentials. Contents ;

Bookmarks An Introduction to NumPy. An Introduction to NumPy. The scientific Python stack. The need for NumPy arrays. NumPy in Academia and Industry. Code conventions used in the book. Installation

requirements. Summary. The NumPy ndarray Object.

A boolean mask - NumPy

Essentials

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(Author), Tanmay Dutta
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Science Essential Training
introduces the beginning to

intermediate data scientist to NumPy, the Python library that supports numerical, scientific, and statistical programming, including machine learning. The library supports several aspects of data science,

providing multidimensional array objects, derived objects (matrixes and masked arrays), and routines for math, logic, sorting, statistics, and random number generation.

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build real-world
applications with NumPy.
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NumPy provides powerful indexing capabilities for arrays. Indexing capabilities in NumPy became so popular that many of them were added back to Python. Indexing NumPy arrays, in

many ways, is very similar
to indexing lists or tuples.
There are some differences,
which will become apparent
as we proceed.

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