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Module 3: The

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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

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by providing users with a versatile N-dimensional array object for storing data, and powerful mathematical functions for operating on those arrays of numbers.

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productivity you need.

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Tanmay Datta ...~~

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...~~

The NumPy module is
a powerhouse of off-

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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

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to NumPy, Travis
Oliphant. 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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Packt

NumPy library has
some useful functions

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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

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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

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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.

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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,

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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 Essentials~~
In Python we have

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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`

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

~~Introduction to NumPy
-W3Schools~~

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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.

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1st Edition, Kindle

Edition. by Leo (Liang-

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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.

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introduces the

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scientist to NumPy,

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supports numerical,

scientific, and

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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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NumPy provides
powerful indexing
capabilities for arrays.
Indexing capabilities
in NumPy became so
popular that many of
them were added
back to Python.

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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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