

PYTHON NUMPY TUTORIAL

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What is a Python NumPy?

NumPy, is a library consisting of multidimensional array objects and a collection of functions for processing those arrays.

Using NumPy, mathematical and logical operations on arrays can be performed.

Operations using NumPy:

Mathematical and logical and scientific operations on arrays.

Fourier transformations and routines for array manipulation.

Operations related to linear algebra.

NumPy - Array Attributes

shape: returns a tuple consisting of array dimensions.

ndim: returns the number of array dimensions.

itemsize: returns the length of each element of array in bytes.

NumPy - Array Creation functions.

empty(): It creates an uninitialized array of specified shape and dtype.

zeros(): new array of specified size, filled with zeros.

ones(): new array of specified size and type, filled with ones.