

Report for One Day Guest Lecture by Affiliate Professor on "NumPy in Python"

Conducted on 29th August 2024

Organized by School of Computer, Information and Mathematical Sciences (SCIMS) Department of Computer Applications

Conveners

- 1. Dr.Sharmila Sankar, Dean(SCIMS)
- 2. Dr. M. Syed Masood, HoD/CA

Coordinators

- 1. Dr.K.Javubar Sathick, Associate Professor / CA
- 2. Dr.A.Abdul Azeez Khan, Associate Professor / CA

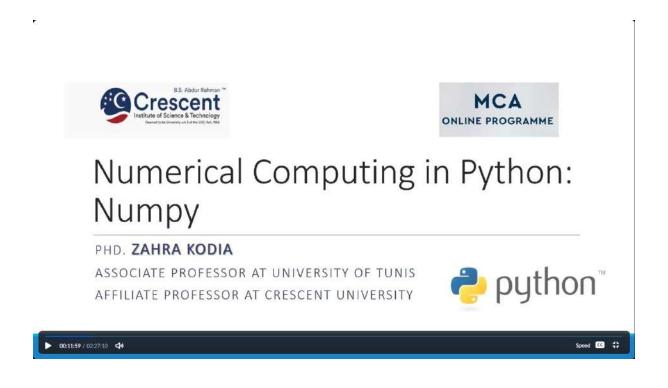
Event Details

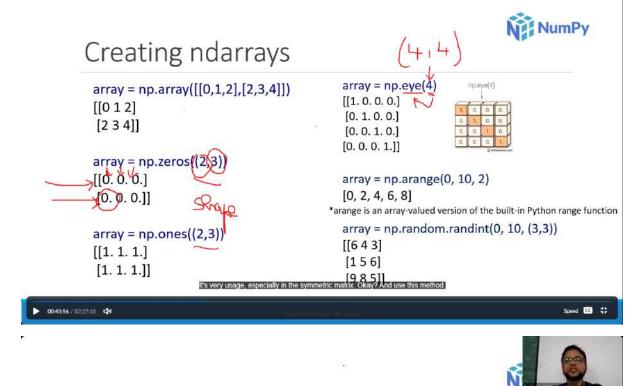
The Department of Computer Applications, under the School of Computer, Information, and Mathematical Sciences, organized a One Day Guest Lecture by Affiliate Professor. Dr.Zarah Kodia – Associate Professor from University of Tunis, Tunisia on "NumPy in Python" from 2:00 PM to 4:00 PM at Mechanical Block, Crescent Campus.

The Guest Lecture focused on the following key takeaways:

- Understanding the fundamentals of NumPy and its significance.
- ❖ Using NumPy for Creating One Dimensional Array, 2D Array, 3D Array and Multidimensional Array.
- ❖ Implementation of Indexing, Slicing, Shape, Reshape, Join and Filter in Array environment.
- ❖ A Complete overview on various types of Sub Modules in NumPy.
- Discussion on various logical and mathematical capabilities for those arrays such as shape manipulation, sorting, selection in NumPy
- ❖ Exploring linear algebra and statistical operations in NumPy environment for real-time problem solving scenario.
- ❖ Overview of random number generation and discrete Fourier transforms to solve an analytical problem using NumPy library.

Sample Screenshots of the Guest Lecture:

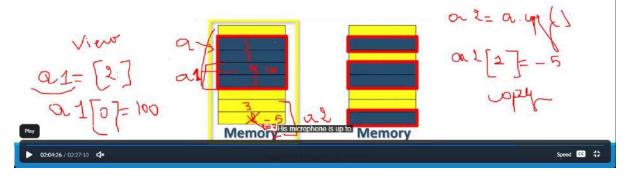




Array item types

Every ndarray is a homogeneous collection of exactly the same datatype

- · every item takes up the same size block of memory
- · each block of memory in the array is interpreted in exactly the same way





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