

SIES Graduate School of Technology

Sri Chandrasekarendra Saraswati Vidyapuram Sector v, Nerul, Navimumbai-400706

Department of Artificial Intelligence Machine Learning

Event Report

Student Development Program on Advance Python Libraries (26/06/23 to 03/07/23)

Event Information

Event Type: Value added Program

Event Topic: Advance Python Libraries

Name of the Resource Person: Dr. Varsha Patil, Prof. Sneha Tapre, Prof. Archana Arudkar, Mr.

Yogesh Murumkar

Event date: 26/06/23 to 03/07/23

Organized for: SE, TE and BE of all branches

Organized by: AIML Department

No of Students attended: 28

Attachments: 1. Event Description

2. Photographs3. Impact Analysis

Event Description

Department of Artificial Intelligence Machine Learning of SIES Graduate School of Technology, Nerul, Navi Mumbai has successfully organized and conducted one week student development program on "Advance Python Libraries" for SE, TE and BE students of AIML/IOT/AIDS/CE/ECS//IT/EXTC/PPT /Mechanical branch from June 26 to July 03 2023.

Python is a versatile programming language with a vast ecosystem of libraries and frameworks. Some advanced Python libraries that are widely used are NumPy, Pandas, Matplotlib, OpenCV, Scrapy, Seaborn, SciPy, TensorFlow, PyTorch, Sci kit-learn, SQL-Alchemy, Django, Flask etc.

In this SDP, libraries such as NumPy, Pandas, Matplotlib, Open-CV, Scrapy and Seaborn included. The Python ecosystem is constantly evolving, and new libraries and frameworks are being developed to address various domains and use cases. Data scientists should be familiar with advanced Python libraries to effectively perform data analysis, modeling, and machine learning tasks.

OpenCV (Open Source Computer Vision) is an open-source computer vision and machine learning library. It provides a wide range of functions and algorithms that enable developers to perform various tasks related to image and video processing, object detection and recognition, and more. OpenCV is widely used in various domains, including robotics, surveillance, augmented reality, medical imaging, and automotive application. Scrapy is a Python framework used for web scraping and crawling. It provides a convenient and powerful way to extract structured data from websites by automating the process of sending HTTP requests, parsing HTML/XML responses, and extracting relevant information.

Seaborn is a popular data visualization library built on top of Matplotlib in Python. It provides a high-level interface for creating informative and aesthetically pleasing statistical graphics. Seaborn is particularly useful for visualizing and exploring data in a concise and elegant manner.

Course Objectives:

- 1. Learn image processing techniques like filtering, morphological operations, and edge detection, feature extraction, object detection, and tracking.
- 2. Extract structured data from websites efficiently through web scraping and crawling.
- 3. To effectively visualize and explore data in a visually appealing and informative manner, enabling data analysts and scientists to gain insights, identify patterns, and communicate findings more effectively.

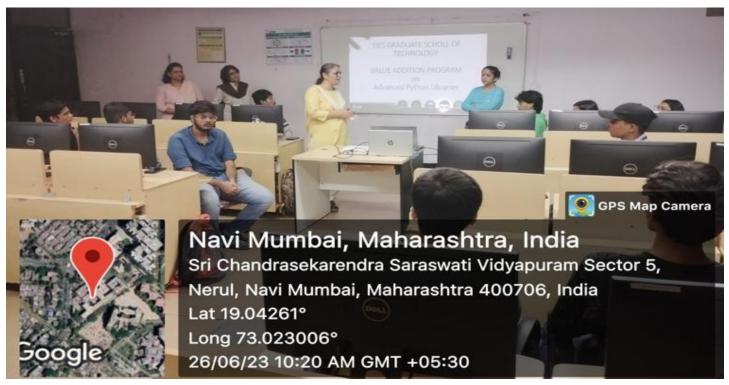
Course Outcome:

- 1. Develop computer vision applications by utilizing image and video processing techniques.
- 2. Create visually appealing and informative statistical visualizations for data exploration and analysis.
- 3. To get proficiency in creating visually appealing and informative statistical plots.

Major topics covered during the workshop are:

- 1) Open CV by Dr. Varsha Patil
- 2) Pandas and Matplotlib by Prof. Sneha Tapre
- 3) Web Scrapping by Prof. Archana Arudkar
- 4) Seaborn and Numpy by Mr. Yogesh Murumkar

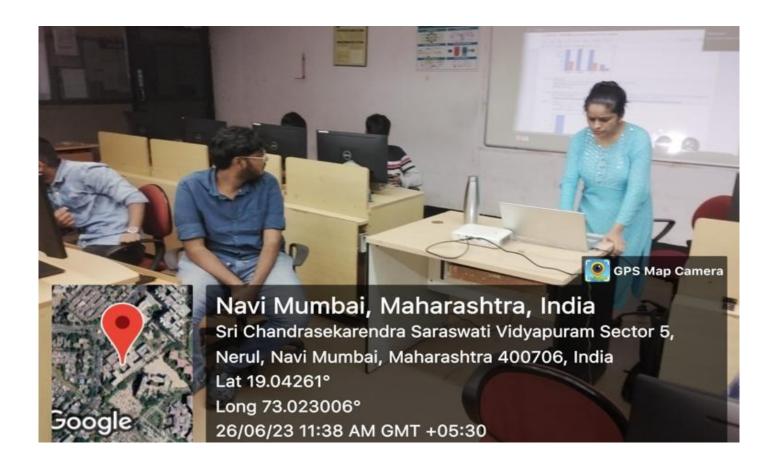
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Attendance

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SDP ON ADVANCED PYTHON LIBRARIES ORGANISED BY AIML DEPARTMENT

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Feedback

7/12/23, 11:38 PM

SDP on "Advance Python Libraries" from 26th June to 3rd July 2023

SDP on "Advance Python Libraries" from 26th June to 3rd July 2023

20 0 Active Responses Average Score Status 1. Name (0 point) Latest Responses "Kshitij Singh" 20 "Ray Veer" Responses "Asil Abdul Salam " 1 respondents (5%) answered Nishita Swaminathan for this question. Himani Deepak Chaudhary Patkar Mitesh Mane Vedika Mishra Sahil Brid Ajit Kshitij Singh Nishita Swaminathan Harsh Sharma Noor Shreyas Prabhakar Gati Soham Phate Manoj Vallari NIVEDHA Zakir 2. Roll No. (0 point) Latest Responses "121A9059" 20 *12149045* Responses "121A9006" 1 respondents (5%) answered 121A9036 for this question. 121A9045 121A9038 121A9017 121A9021 121A9006 222A9069 121A9041 121A9036 120A3033 121A9051 12A7056 121A9053 121A9048 222A9064 121A9010

2. Roll No. (0 point)

20 Responses Latest Responses "121A9059" "121A9045" "121A9006"

1 respondents (5%) answered 121A9036 for this question.

121A9045

121A9038 121A9017 222A9069 121A9041 222A9064

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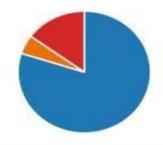
3. Email_id (0 point)

20 Responses

Latest Responses "kshitij0920edu@gmail.com" "rajv196077@gmail.com" "assilsallam09@gmail.com"

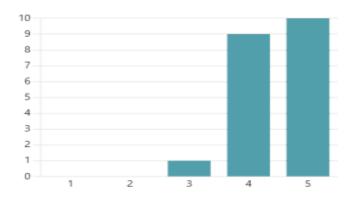
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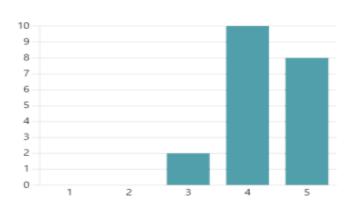
7. Effectiveness of the session (5 points)

4.45 Average Rating



8. Satisfaction in general (0 point)

4.30 Average Rating



SDP Projects

Project Topic	Name of the Student		
Angle Measurement	Mitesh Mane		
Attendance system using QR Code	Gati Patkar		
	Kshitij Singh		
Document Scanner using Python OpenCV	Noor Zakir Sayed		
Fire Detection using Oen CV	Deepak & Nikhil		
Image to text converter	Nivedha & Chandana		
Online food order prediction	Himani Mali		
Pneumonia Detection	Nishitha Swaminathan & Shreyas Prabhakar		
Red light green light squid game using open cv	Darshana and Akanksha		
Virtual painting app	Sahil Brid and Rohit Singh		

Impact Analysis

Students successfully completed internship projects. They received an internship based on the skill set they acquired from this value-added course.