



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: <ol style="list-style-type: none">1. Event Description2. 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.

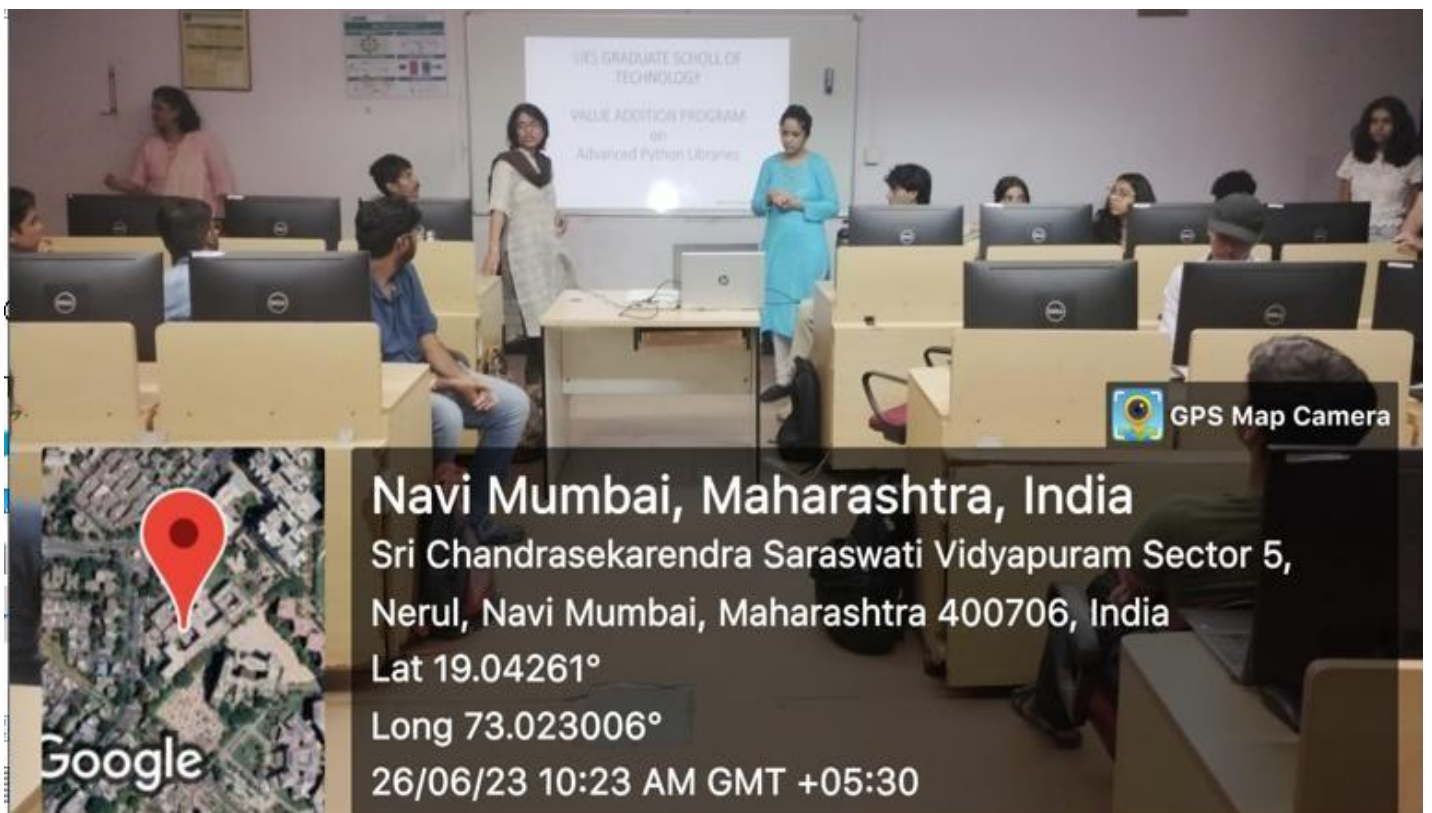
Course Outcome:

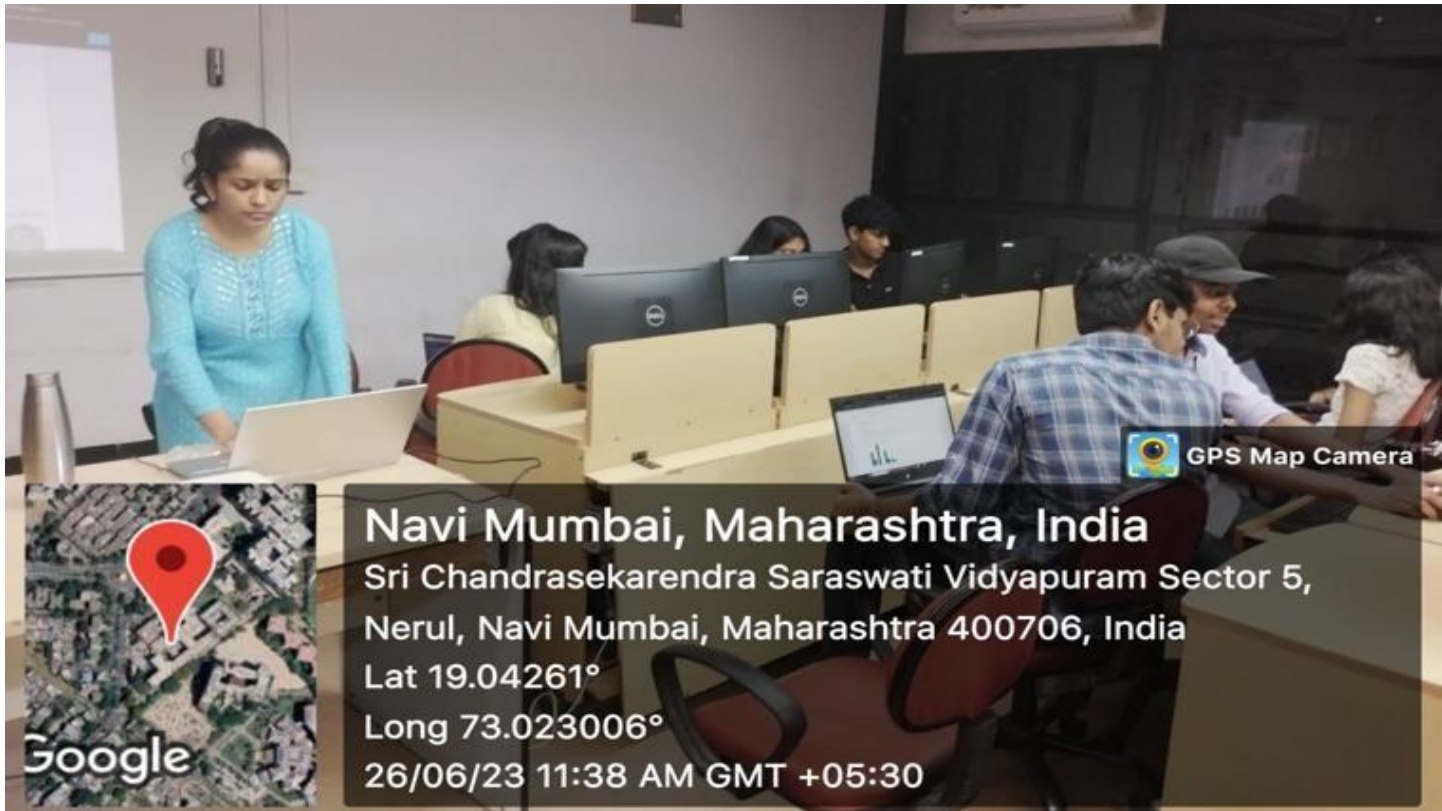
1. Develop computer vision applications by utilizing image and video processing techniques.
2. Create visually appealing and informative statistical visualizations for data exploration and analysis.
3. To get proficiency in creating visually appealing and informative statistical plots.

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

Photograph:

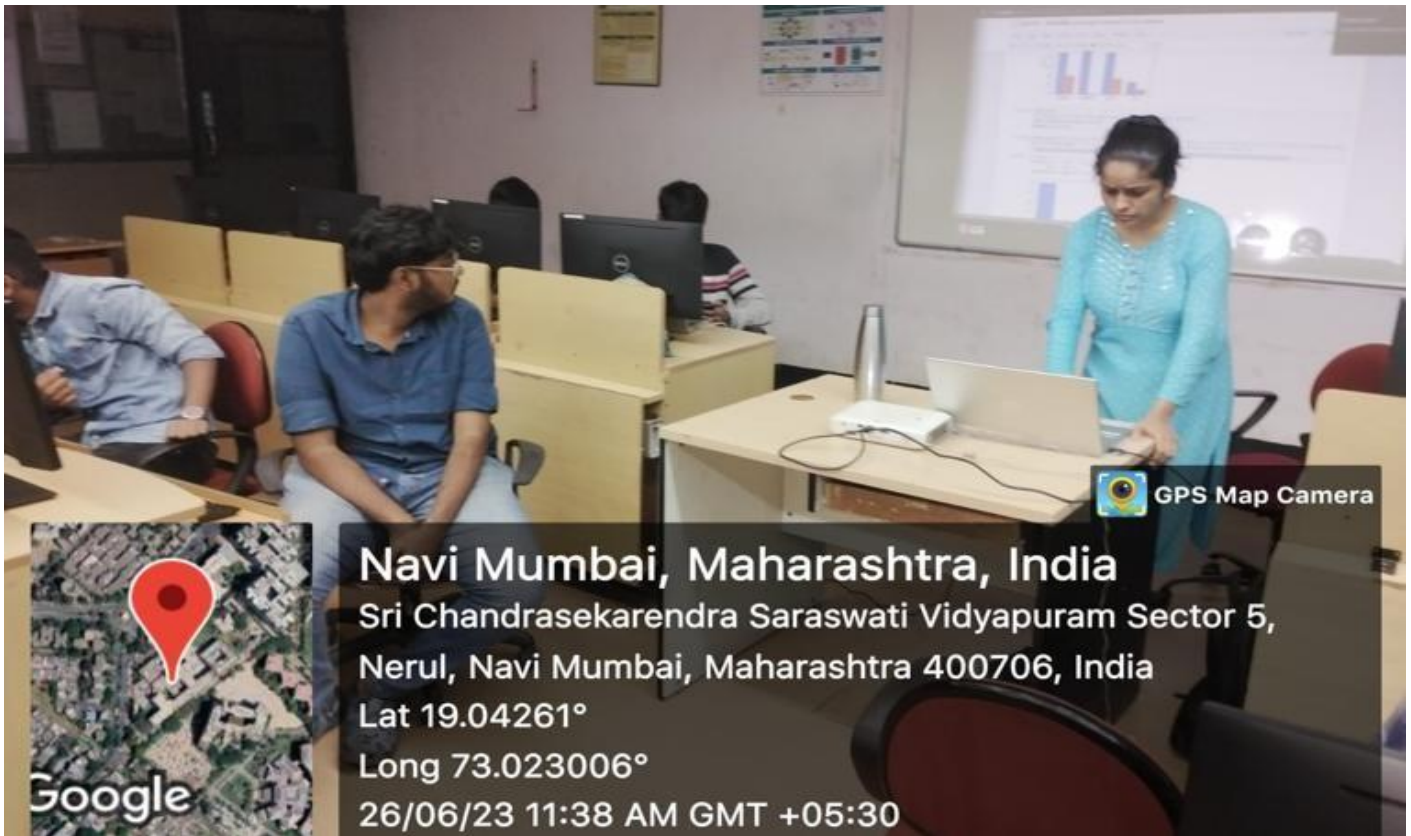




Navi Mumbai, Maharashtra, India
Sri Chandrasekarendra Saraswati Vidyapuram Sector 5,
Nerul, Navi Mumbai, Maharashtra 400706, India
Lat 19.04261°
Long 73.023006°
26/06/23 11:38 AM GMT +05:30



Navi Mumbai, Maharashtra, India
Sri Chandrasekarendra Saraswati Vidyapuram Sector 5,
Nerul, Navi Mumbai, Maharashtra 400706, India
Lat 19.04261°
Long 73.023006°
26/06/23 10:45 AM GMT +05:30



GPS Map Camera



Navi Mumbai, Maharashtra, India
Sri Chandrasekarendra Saraswati Vidyapuram Sector 5,
Nerul, Navi Mumbai, Maharashtra 400706, India
Lat 19.04261°
Long 73.023006°
26/06/23 11:38 AM GMT +05:30



GPS Map Camera



Navi Mumbai, Maharashtra, India
Sri Chandrasekarendra Saraswati Vidyapuram Plot I-E, 22VF+465, Dr D Y
Patil Vidyanagar, Sector 5, Nerul, Navi Mumbai, Maharashtra 400706, India
Lat 19.042699°
Long 73.023051°
27/06/23 04:00 PM GMT +05:30



GPS Map Camera

Navi Mumbai, Maharashtra, India

Sri Chandrasekarendra Saraswati Vidyapuram Plot I-E, 22VF+465, Dr D Y Patil Vidyanagar, Sector 5, Nerul, Navi Mumbai, Maharashtra 400706, India
Lat 19.042673°

Long 73.023051°
30/06/23 04:00 PM GMT +05:30

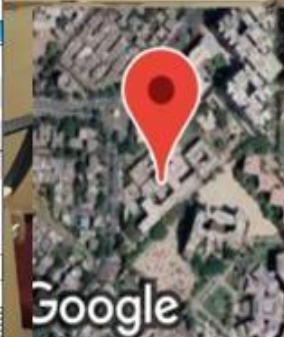


GPS Map Camera


Navi Mumbai, Maharashtra, India

Sri Chandrasekarendra Saraswati Vidyapuram Plot I-E, 22VF+465, Dr D Y Patil Vidyanagar, Sector 5, Nerul, Navi Mumbai, Maharashtra 400706, India
Lat 19.042673°

Long 73.023072°
30/06/23 04:02 PM GMT +05:30




Attendance


SIES Graduate School of Technology
 Sri Chandrasekarendra Saraswati Vidyapuram
 Sector V, Nerul, Navimumbai-400706

SDP ON ADVANCED PYTHON LIBRARIES
ORGANISED BY AIML DEPARTMENT

Day : 1 Monday Date : 26/06/23

Sl.No.	Roll No.	Name	Branch	Morning Sign	Afternoon Sign
1	120A3052	Shreyas Prabhakar	IT	AB	AB
2	120A3033	NISHITA SWAMINATHAN	IT	Nishita	Nishita
3	121A9036	Nikhil	AIML	Nikhil	Nikhil
4	121A9041	Gati Patkar	AIML	Gati	Gati
5	121A9059	Kshitij Singh	AIML	Kshitij	Kshitij
6	121A7056	Soham Phate	ECS	Soham	Soham
7	121A9063	Vedika Mishra	AIML	Vedika	Vedika
8	121A9031	Navya	AIML	Navya	Navya
9	121A9048	Sahil Brid	AIML	Sahil	Sahil
10	121A9047	Romit Addagatla	AIML	Romit	Romit
11	222A9069	Mitesh Mane	AIML	Mitesh	Mitesh
12	121A9051	Noor Zakir Sayed	AIML	Noor	Noor
13	121A9030	Shrika Mishra	AIML	Shrika	Shrika
14	222A9064	Akanksha Harichandra Kadam	AIML	A	A
15	222A9070	Samruddhi Sanjay Todkar	AIML	AB	AB
16	121A9038	Nivedha N vellaipandi	AIML	Nivedha	Nivedha
17	121A9021	Darshana Laxman Jadhav	AIML	Darshana	Darshana
18	121A9054	Chandana Shastri	AIML	AB	AB
19	121A9010	Deepak Sanjay Chaudhary	AIML	Deepak	Deepak
20	120A3025	Himani Ajit Mali	IT	Himani	Himani
21	121A9053	Harsh Sharma	AIML	Harsh	Harsh
22	121A9017	Vallari Manoj Gaikwad	AIML	Vallari	Vallari
23	121A9045	Raj Veer	AIML	Raj	Raj
24	121A9060	Rohit Singh	AIML	Rohit	Rohit
25	121A1089	Rushikesh Joshi	CE	Rushikesh	Rushikesh
26	121A9006	Asil Abdul Salam	AIML	Asil	Asil


SIES Graduate School of Technology
 Sri Chandrasekarendra Saraswati Vidyapuram
 Sector V, Nerul, Navimumbai-400706

SDP ON ADVANCED PYTHON LIBRARIES
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Day : 2 Date : 27/6/23

Sl.No.	Roll No.	Name	Branch	Morning Sign	Afternoon Sign
1	120A3052	Shreyas Prabhakar	IT	AB	AB
2	120A3033	NISHITA SWAMINATHAN	IT	Nishita	Nishita
3	121A9036	Nikhil	AIML	Nikhil	Nikhil
4	121A9041	Gati Patkar	AIML	Gati	Gati
5	121A9059	Kshitij Singh	AIML	Kshitij	Kshitij
6	121A7056	Soham Phate	ECS	Soham	Soham
7	121A9063	Vedika Mishra	AIML	Vedika	Vedika
8	121A9031	Navya	AIML	Navya	Navya
9	121A9048	Sahil Brid	AIML	Sahil	Sahil
10	121A9047	Romit Addagatla	AIML	Romit	Romit
11	222A9069	Mitesh Mane	AIML	Mitesh	Mitesh
12	121A9051	Noor Zakir Sayed	AIML	Noor	Noor
13	121A9030	Shrika Mishra	AIML	Shrika	Shrika
14	222A9064	Akanksha Harichandra Kadam	AIML	A	A
15	222A9070	Samruddhi Sanjay Todkar	AIML	AB	AB
16	121A9038	Nivedha N vellaipandi	AIML	Nivedha	Nivedha
17	121A9021	Darshana Laxman Jadhav	AIML	Darshana	Darshana
18	121A9054	Chandana Shastri	AIML	AB	AB
19	121A9010	Deepak Sanjay Chaudhary	AIML	Deepak	Deepak
20	120A3025	Himani Ajit Mali	IT	Himani	Himani
21	121A9053	Harsh Sharma	AIML	Harsh	Harsh
22	121A9017	Vallari Manoj Gaikwad	AIML	Vallari	Vallari
23	121A9045	Raj Veer	AIML	Raj	Raj
24	121A9060	Rohit Singh	AIML	Rohit	Rohit
25	121A1089	Rushikesh Joshi	CE	AB	AB
26	121A9006	Asil Abdul Salam	AIML	AB	AB

SDP ON ADVANCED PYTHON LIBRARIES
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Day : 3rd wednesday Date : 28/06/23

Sr.No.	Roll No.	Name	Branch	Morning Sign	Afternoon Sign
1	120A3052	Shreyas Prabhakar	IT	<i>[Signature]</i>	<i>[Signature]</i>
2	120A3033	NISHITA SWAMINATHAN	IT	<i>[Signature]</i>	<i>[Signature]</i>
3	121A9036	Nikhil	AIML	<i>[Signature]</i>	<i>[Signature]</i>
4	121A9041	Gati Patkar	AIML	<i>[Signature]</i>	<i>[Signature]</i>
5	121A9059	Kshitij Singh	AIML	<i>[Signature]</i>	<i>[Signature]</i>
6	121A7056	Soham Phate	ECS	<i>[Signature]</i>	<i>[Signature]</i>
7	121A9063	Vedika Mishra	AIML	AB	AB
8	121A9031	Navya	AIML	<i>[Signature]</i>	<i>[Signature]</i>
9	121A9048	Sahil Brid	AIML	<i>[Signature]</i>	<i>[Signature]</i>
10	121A9047	Romit Addagatla	AIML	<i>[Signature]</i>	<i>[Signature]</i>
11	222A9069	Mitesh Mane	AIML	<i>[Signature]</i>	<i>[Signature]</i>
12	121A9051	Noor Zakir Sayed	AIML	<i>[Signature]</i>	<i>[Signature]</i>
13	121A9030	Shrika Mishra	AIML	<i>[Signature]</i>	<i>[Signature]</i>
14	222A9064	Akanksha Harichandra Kadam	AIML	A	A
15	222A9070	Samruddhi Sanjay Todkar	AIML	AB	AB
16	121A9038	Nivedha N vellaipandi	AIML	<i>[Signature]</i>	<i>[Signature]</i>
17	121A9021	Darshana Laxman Jadhav	AIML	<i>[Signature]</i>	<i>[Signature]</i>
18	121A9054	Chandana Shastri	AIML	AB	AB
19	121A9010	Deepak Sanjay Chaudhary	AIML	<i>[Signature]</i>	<i>[Signature]</i>
20	120A3025	Himani Ajit Mali	IT	AB	AB
21	121A9053	Harsh Sharma	AIML	<i>[Signature]</i>	<i>[Signature]</i>
22	121A9017	Vallari Manoj Gaikwad	AIML	AB	AB
23	121A9045	Raj Veer	AIML	<i>[Signature]</i>	<i>[Signature]</i>
24	121A9060	Rohit Singh	AIML	<i>[Signature]</i>	<i>[Signature]</i>
25	121A1089	Rushikesh Joshi	CE	AB	AB
26	121A9006	Asil Abdul Salam	AIML	<i>[Signature]</i>	<i>[Signature]</i>

SDP ON ADVANCED PYTHON LIBRARIES
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Day : 04 Friday Date : 30/6/23

Sr.No.	Roll No.	Name	Branch	Morning Sign	Afternoon Sign
1	120A3052	Shreyas Prabhakar	IT	<i>[Signature]</i>	<i>[Signature]</i>
2	120A3033	NISHITA SWAMINATHAN	IT	AB	AB
3	121A9036	Nikhil	AIML	<i>[Signature]</i>	<i>[Signature]</i>
4	121A9041	Gati Patkar	AIML	<i>[Signature]</i>	<i>[Signature]</i>
5	121A9059	Kshitij Singh	AIML	<i>[Signature]</i>	<i>[Signature]</i>
6	121A7056	Soham Phate	ECS	<i>[Signature]</i>	<i>[Signature]</i>
7	121A9063	Vedika Mishra	AIML	AB	AB
8	121A9031	Navya	AIML	<i>[Signature]</i>	<i>[Signature]</i>
9	121A9048	Sahil Brid	AIML	<i>[Signature]</i>	<i>[Signature]</i>
10	121A9047	Romit Addagatla	AIML	<i>[Signature]</i>	<i>[Signature]</i>
11	222A9069	Mitesh Mane	AIML	<i>[Signature]</i>	<i>[Signature]</i>
12	121A9051	Noor Zakir Sayed	AIML	<i>[Signature]</i>	<i>[Signature]</i>
13	121A9030	Shrika Mishra	AIML	<i>[Signature]</i>	<i>[Signature]</i>
14	222A9064	Akanksha Harichandra Kadam	AIML	A	A
15	222A9070	Samruddhi Sanjay Todkar	AIML	AB	AB
16	121A9038	Nivedha N vellaipandi	AIML	<i>[Signature]</i>	<i>[Signature]</i>
17	121A9021	Darshana Laxman Jadhav	AIML	<i>[Signature]</i>	<i>[Signature]</i>
18	121A9054	Chandana Shastri	AIML	<i>[Signature]</i>	<i>[Signature]</i>
19	121A9010	Deepak Sanjay Chaudhary	AIML	<i>[Signature]</i>	<i>[Signature]</i>
20	120A3025	Himani Ajit Mali	IT	AB	AB
21	121A9053	Harsh Sharma	AIML	<i>[Signature]</i>	<i>[Signature]</i>
22	121A9017	Vallari Manoj Gaikwad	AIML	AB	AB
23	121A9045	Raj Veer	AIML	<i>[Signature]</i>	<i>[Signature]</i>
24	121A9060	Rohit Singh	AIML	<i>[Signature]</i>	<i>[Signature]</i>
25	121A1089	Rushikesh Joshi	CE	AB	AB
26	121A9006	Asil Abdul Salam	AIML	<i>[Signature]</i>	<i>[Signature]</i>

SDP ON ADVANCED PYTHON LIBRARIES

ORGANISED BY AIML DEPARTMENT

Day : 02/07/23 Monday

Date : 02/07/23

Sr.No.	Roll No.	Name	Branch	Morning Sign	Afternoon Sign
1	120A3052	Shreyas Prabhakar	IT		
2	120A3033	NISHITA SWAMINATHAN	IT	AB	AB
3	121A9036	Nikhil	AIML		
4	121A9041	Gati Patkar	AIML		
5	121A9059	Kshitij Singh	AIML		
6	121A7056	Soham Phate	ECS		
7	121A9063	Vedika Mishra	AIML	AB	AB
8	121A9031	Navya	AIML		
9	121A9048	Sahil Brid	AIML		
10	121A9047	Romit Addagatla	AIML		
11	222A9069	Mitesh Mane	AIML		
12	121A9051	Noor Zakir Sayed	AIML		
13	121A9030	Shrika Mishra	AIML		
14	222A9064	Akanksha Harichandra Kadam	AIML	A	A
15	222A9070	Samruddhi Sanjay Todkar	AIML	AB	AB
16	121A9038	Nivedha N vellaipandi	AIML	Nivedha	Nivedha
17	121A9021	Darshana Laxman Jadhav	AIML	Jadhav	Jadhav
18	121A9054	Chandana Shastri	AIML		
19	121A9010	Deepak Sanjay Chaudhary	AIML		
20	120A3025	Himani Ajit Mali	IT	AB	AB
21	121A9053	Harsh Sharma	AIML	AB	AB
22	121A9017	Vallari Manoj Gaikwad	AIML	Gaikwad	Gaikwad
23	121A9045	Raj Veer	AIML		
24	121A9060	Rohit Singh	AIML		
25	121A1089	Rushikesh Joshi	CE	AB	AB
26	121A9006	Asil Abdul Salam	AIML		

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
Responses

0
Average Score

Active
Status

1. Name (0 point)

20
Responses

Latest Responses
"Kshitij Singh"
"Raj Veer"
"Asif Abdul Salam "

1 respondents (5%) answered Nishita Swaminathan for this question.

Gaikwad Himani Deepak Chaudhary
Patkar Mitesh Mane Vedika Mishra Sahil Brid Ajit
Kshitij Singh Nishita Swaminathan Harsh Sharma
Noor Shreyas Prabhakar Gati Soham Phate Vivek
Manoj Vallari NIVEDHA Zakir

2. Roll No. (0 point)

20
Responses

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

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

121A9045
121A9038 121A9017 121A9021 121A9006
222A9069 121A9041 121A9036 120A3033 121A9051
222A9064 121A9048 12A7056 121A9053
121A9010

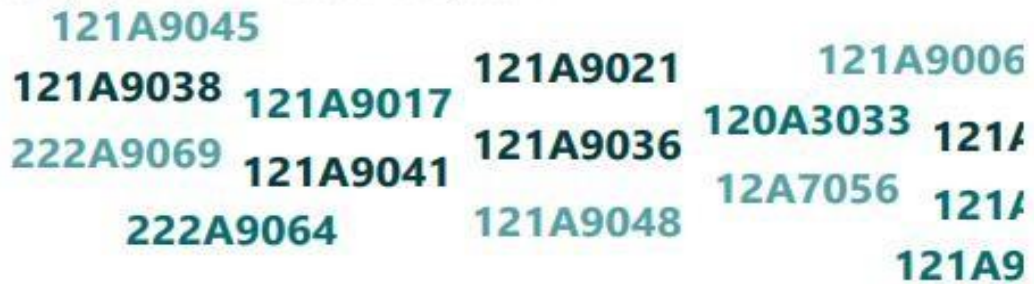
2. Roll No. (0 point)

20
Responses

Latest Responses

- "121A9059"
- "121A9045"
- "121A9006"

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



3. Email_id (0 point)

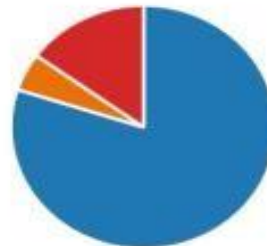
20
Responses

Latest Responses

- "kshitij0920edu@gmail.com"
- "rajv196077@gmail.com"
- "assitsallam09@gmail.com"

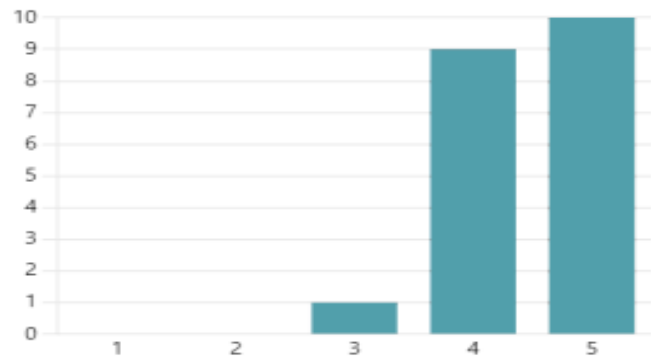
4. Department (0 point)

● AIML	16
● CSE IOT	1
● CE	0
● IT	3



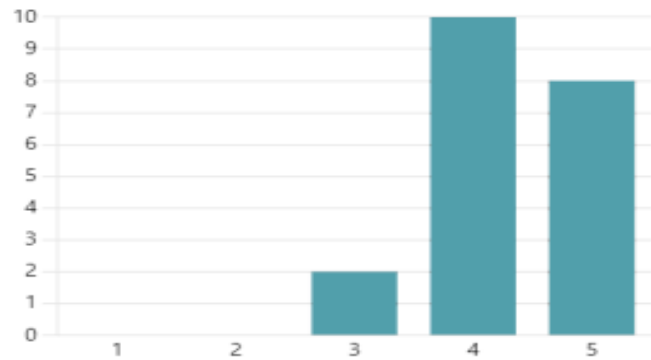
7. Effectiveness of the session (5 points)

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.

