



## **MALLA REDDY COLLEGE OF ENGINEERING**

(Approved by AICTE, Permanently Affiliated to JNTUH)

Recognized under Section 2(f) & 12(B) of the UGC Act 1956, An ISO  
9001:2015 Certified Institution.

Maisammaguda, Dhulapally, post via Kompally, Secunderabad - 500100

## **DEPT.OF CSE-DS &AI&DS**

(True success is all about working towards meaningful goals and dreams)

## **Report**



**A 5 DAY WORKSHOP ON**

**“PYTHON WITH DATASCIENCE AND ITS APPLICATIONS”**

**20-08-2024 TO 24-08 2024@9:30am to 4:00 pm**

## **PARTICIPANTS**

**II CSE-DS STUDENTS**



**ALL ARE CORDIALLY INVITED !!!**

PREPARED BY  
T.NAGA PRAVEENA,ASST.PROFESSOR,MRCE





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### DEPARTMENT OF CSE-DS

To,

1-08-2024

The Principal,

MRCE.

Respected Sir,

Sub: Request to conduct one Workshop on **“PYTHON WITH DATASCIENCE AND ITS APPLICATIONS”**-reg

Greetings!!!

Our department of CSE-DS has planned to organize a 5 day Workshop **“PYTHON WITH DATASCIENCE AND ITS APPLICATIONS”** dated on **20-08-2024 TO 24-08-2024** @9:30am to 4:00 pm. Here, with I attached the budget proposal for your kind attention.

Kindly accept the same and do the needful.

SL.NO	NAME OF THE EVENT	TITLE	TARGET AUDIENCE	DATE
1	Workshop	<b><u>“PYTHON WITH DATASCIENCE AND ITS APPLICATIONS”</u></b>	II CSE-DS STUDENTS (100)	20-06-2024 21-06-2024 22-06-2024 23-06-2024 24-06-2024

Thanking you,

Your's Truly,



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## DEPARTMENT OF CSE-DS

### A 5 days workshop on

### "PYTHON WITH DATASCIENCE AND ITS APPLICATIONS"

20-08-2024 TO 24-08-2024 @ 9:30 am to 4:00pm



## BUDGET

<u>NAMES</u>	<u>AMOUNT</u>
FREE PROGRAM	

Dr.G.M.BRITTO,  
HoD/CSE-DS

DR.M.ASHOK  
Principal,MRCE.





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## DEPARTMENT OF CSE-DS

### INVITATION

**A 5 days workshop on**

**“PYTHON WITH DATASCIENCE AND ITS APPLICATIONS”**

**20-08-2024 TO 24-08-2024 @ 9:30 am to 4:00pm**



### PARTICIPANTS

**II CSE-DS STUDENTS**

### RESOURCE PERSON

**Ms.POOJA & ANIL**

**UNI REACH TECHNOLOGIES PVT LTD**

**AN INVESTMENT  
IN KNOWLEDGE  
PAYS THE  
BEST INTEREST.**

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**Dr.G.M.BRITTO,**  
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## DEPARTMENT OF CSE-DS

### BROCHURE

**A 5 days workshop on**

**“PYTHON WITH DATASCIENCE AND ITS APPLICATIONS”**

**20-08-2024 TO 24-08-2024 @ 9:30 am to 4:00pm**



### PARTICIPANTS

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### RESOURCE PERSON

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## DEPARTMENT OF CSE-DS

### A 5 days workshop on

### "PYTHON WITH DATASCIENCE AND ITS APPLICATIONS"

20-08-2024 TO 24-08-2024 @ 9:30 am to 4:00pm



## PROGRAM SCHEDULE

<u>TIME</u>	<u>SCHEDULE</u>
<u>9:40 AM</u>	<u>INAUGURATION</u>
<u>9:45 AM</u>	<u>ADDRESS BY HOD</u>
<u>9:50 AM</u>	<u>GUEST/ RESOURCE PERSON INTRODUCED BY</u> <u>COORDINATOR</u>
<u>9:55 AM</u>	<u>ADDRESS BY PRINCIPAL</u>
<u>10:00AM</u>	<u>PROGRAM STARTS</u>

Dr.G.M.BRITTO,  
HoD/CSE-DS

DR.M.ASHOK  
Principal,MRCE



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## DEPARTMENT OF CSE-DS

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<u>9:55 AM</u>	<u>ADDRESS BY PRINCIPAL</u>
<u>10:00AM</u>	<u>PROGRAM STARTS</u>

<u>DAY-1</u>	<u>INTRODUCTION TO PYTHON,INSTALLATION OF ANACONDA</u>
<u>DAY-2</u>	<u>MODULES IN PYTHON</u>
<u>DAY-2</u>	<u>SESSION ON PANDAS AND NUMPYS</u>
<u>DAY-3</u>	<u>SESSION ON MATPLOTLIB</u>
<u>DAY-4</u>	<u>SESSION ON DATAVISUALIZATION USING SEABORN</u>
<u>DAY-5</u>	<u>HANDS ON PROJECT FOR APPLYING MODULES ON DATASET</u>
<u>3:40PM</u>	<u>CERTIFICATE DISTRIBUTION</u>
<u>3-55PM</u>	<u>FEEDBACK FROM STUDENTS</u>
<u>3:55PM</u>	<u>VOTE OF THANKS</u>

Module	Objective	Content	Duration (HRS)
DAY-1	INSTALLATION	ANACODA SOFTWARE INSTALLATION	5HRS

<b>DAY-1</b>	BASICS OF PYTHON	GIVING MORE EXAMPLES ON BASICS OF PYTHON	5HRS
<b>DAY-2</b>	SESSION ON PANDAS AND NUMPYS	USING A DATASET APPLYING FUNCTIONS OF NUMPYS AND PANDAS ON THAT DATASET	5HRS
<b>DAY-3</b>	SESSION ON MATPLOTLIB	USING A DATASET APPLYING FUNCTIONS OF NUMPYS ,PANDAS AND MATPLOTLIB ON THAT DATASCIENCE	5HRS
<b>DAY-4</b>	DATA VISUALIZATION CONCEPT WITH SEABORN	APPLYING DIFFERENT FUNCTIONS OF SEABORN AND VISUALIZING DIFFERENT TYPES OF GRAPHS	5HRS

**DAY-5**

PROJECT

STUDENTS ABLE TO DO AN  
SMALL PROJECT ON  
DIFFERENT MODULES

5HRS





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## “PYTHON WITH DATASCIENCE AND ITS APPLICATIONS”

# Python

Python is a programming language widely used by Data Scientists.

Python has in-built mathematical libraries and functions, making it easier to calculate mathematical problems and to perform data analysis.

We will provide practical examples using Python.

To learn more about Python, please visit our [Python Tutorial](#).

---

## Python Libraries

Python has libraries with large collections of mathematical functions and analytical tools.

In this course, we will use the following libraries:

- Pandas - This library is used for structured data operations, like import CSV files, create dataframes, and data preparation
- [Numpy](#) - This is a mathematical library. Has a powerful N-dimensional array object, linear algebra, Fourier transform, etc.
- [Matplotlib](#) - This library is used for visualization of data.
- [SciPy](#) - This library has linear algebra modules

## Create a DataFrame with Pandas

A data frame is a structured representation of data.

Let's define a data frame with 3 columns and 5 rows with fictional numbers:

### Example

```
import pandas as pd
```

```
d = {'col1': [1, 2, 3, 4, 7], 'col2': [4, 5, 6, 9, 5], 'col3':  
[7, 8, 12, 1, 11]}
```

```
df = pd.DataFrame(data=d)
```

```
print(df)
```

## Interpreting the Output

This is the output:

	col1	col2	col3
1. row	0	1	4
2. row	1	2	5
3. row	2	3	6
4. row	3	4	9
5. row	4	7	5

We see that "col1", "col2" and "col3" are the names of the columns.

Do not be confused about the vertical numbers ranging from 0-4. They tell us the information about the position of the rows.

In Python, the numbering of rows starts with zero.

Now, we can use Python to count the columns and rows.

We can use `df.shape[1]` to find the number of columns:

### Example

Count the number of columns:

```
count_column = df.shape[1]  
print(count_column)
```

This chapter shows three commonly used functions when working with Data Science: `max()`, `min()`, and `mean()`.

---

# The Sports Watch Data Set

Duration	Average_Pulse	Max_Pulse	Calorie_Burnage	Hours_Work	Hours_Sleep
30	80	120	240	10	7
30	85	120	250	10	7
45	90	130	260	8	7
45	95	130	270	8	7
45	100	140	280	0	7
60	105	140	290	7	8
60	110	145	300	7	8
60	115	145	310	8	8
75	120	150	320	0	8

75

125

150

330

8

8

The data set above consists of 6 variables, each with 10 observations:

- **Duration** - How long lasted the training session in minutes?
- **Average\_Pulse** - What was the average pulse of the training session?  
This is measured by beats per minute
- **Max\_Pulse** - What was the max pulse of the training session?
- **Calorie\_Burnage** - How much calories were burnt on the training session?
- **Hours\_Work** - How many hours did we work at our job before the training session?
- **Hours\_Sleep** - How much did we sleep the night before the training session?

We use underscore (\_) to separate strings because Python cannot read space as separator.

## Extract and Read Data With Pandas

Before data can be analyzed, it must be imported/extracted.

In the example below, we show you how to import data using Pandas in Python.

We use the `read_csv()` function to import a CSV file with the health data:

### Example

```
import pandas as pd
```

```
health_data = pd.read_csv("data.csv", header=0, sep=",")
```

```
print(health_data)
```

### Example Explained

- Import the Pandas library
- Name the data frame as `health_data`.
- `header=0` means that the headers for the variable names are to be found in the first row (note that 0 means the first row in Python)

- `sep=","` means that `,` is used as the separator between the values. This is because we are using the file type `.csv` (comma separated values)

**Tip:** If you have a large CSV file, you can use the `head()` function to only show the top 5 rows:

## Example

```
import pandas as pd

health_data = pd.read_csv("data.csv", header=0, sep=",")

print(health_data.head())
```



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## PARTICIPANTS

**II CSE-DS STUDENTS**

## PROGRAM OUTCOME

**The participants are able to do..**

Learning Ethical hacking & cyber security can lead to several outcomes, depending on your goals, interests, and how you choose to apply your knowledge. Here are some potential outcomes



1. Encryption of data
2. Access control
3. Physical security
4. Non-disclosure agreements
5. Authentication and authorization
6. Ensuring Integrity

### **CSE- DS II A SECTION**

<b>SL.NO.</b>	<b>ROLL NUMBER</b>	<b>NAME OF THE STUDENT</b>
1.	23Q91A6706	CHINTAKUNTA AKSHITHA
2.	23Q91A6707	CHOUDAM NIKITHA
3.	23Q91A6708	CHOWDABOINA SWETHA
4.	23Q91A6739	PAGIDIPALLI JAYASRI
5.	23Q91A6718	GANGULA SRIJA
6.	23Q91A6725	KORIVADA KIRAN KUMAR
7.	23Q91A6728	M GOPALA B SUBRAHMANYAM
8.	23Q91A6729	MADDURI JAYAVARDHAN REDDY
9.	23Q91A6731	MENDA DURGA SRI
10.	23Q91A6744	PRANATHI NYALAPOGULA
11.	23Q91A6747	REGULA MEEKSHITHA
12.	23Q91A6749	SHAIK ABDUL RASHID
13.	23Q91A6754	SUNKARI POOJA
14.	23Q91A6755	SURAM VYSHNAVI
15.	23Q91A6763	YASH KUMAR SINGH

## CSE- DS II B SECTION

Sl.NO.	ROLL NUMBER	NAME OF THE STUDENT
1.	23Q91A6766	ANSIKA SINGH
2.	23Q91A6772	BIKAS PARIDA
3.	23Q91A6775	CHALAKAPALLY SRINIDHI
4.	23Q91A6773	BONAGIRI SANDHYA RANI
5.	23Q91A6781	GANJI SRIMAI
6.	23Q91A6785	GULLE SANGAMESH
7.	23Q91A6788	JALDI SRUJAN RAJ
8.	23Q91A6793	KARAMKANTI SAI VAMSHI
9.	23Q91A6797	KOLLI NUTHAN SAI
10.	23Q91A67A8	P SOWPARNI
11.	23Q91A67B3	PUJARI SANDHYA
12.	23Q91A67B5	RENIMADUGU MEGHANA
13.	23Q91A67C0	THIRAGABATHINA BHARATH SANKAR
14.	23Q91A67C2	TIPPA REDDY SRI TULASI
15.	23Q91A67C3	UDUTHA PRASHANTH

## CSE- DS II C SECTION

Sl.NO.	ROLL NUMBER	NAME OF THE STUDENT
1.	23Q91A67C9	B UMAMAHESHWARI
2.	23Q91A67D7	ELLENDULA SIDDARTHA
3.	23Q91A67E1	JAINI RAHUL
4.	23Q91A67E6	JANMANCHI VIGNESH
5.	23Q91A67F1	KOOSA PANINDHER
6.	23Q91A67F6	MAADAVARAO SAI THRISHA
7.	23Q91A67G1	MANNE PRANAYA
8.	23Q91A67G4	MUPPIDI SRI KUMAR
9.	23Q91A67H1	PALAPARTI ANAND
10.	23Q91A67H4	PINGILI SOURISH REDDY
11.	23Q91A67H5	PULGAM VIJAY KRISHNA
12.	23Q91A67H7	RAKONDA VAISHNAVI
13.	23Q91A67H9	SIRRA SHIVA KIRAN
14.	23Q91A67I3	THATI ASHOK KUMAR
15.	23Q91A67I6	VARIGANTI CHARAN

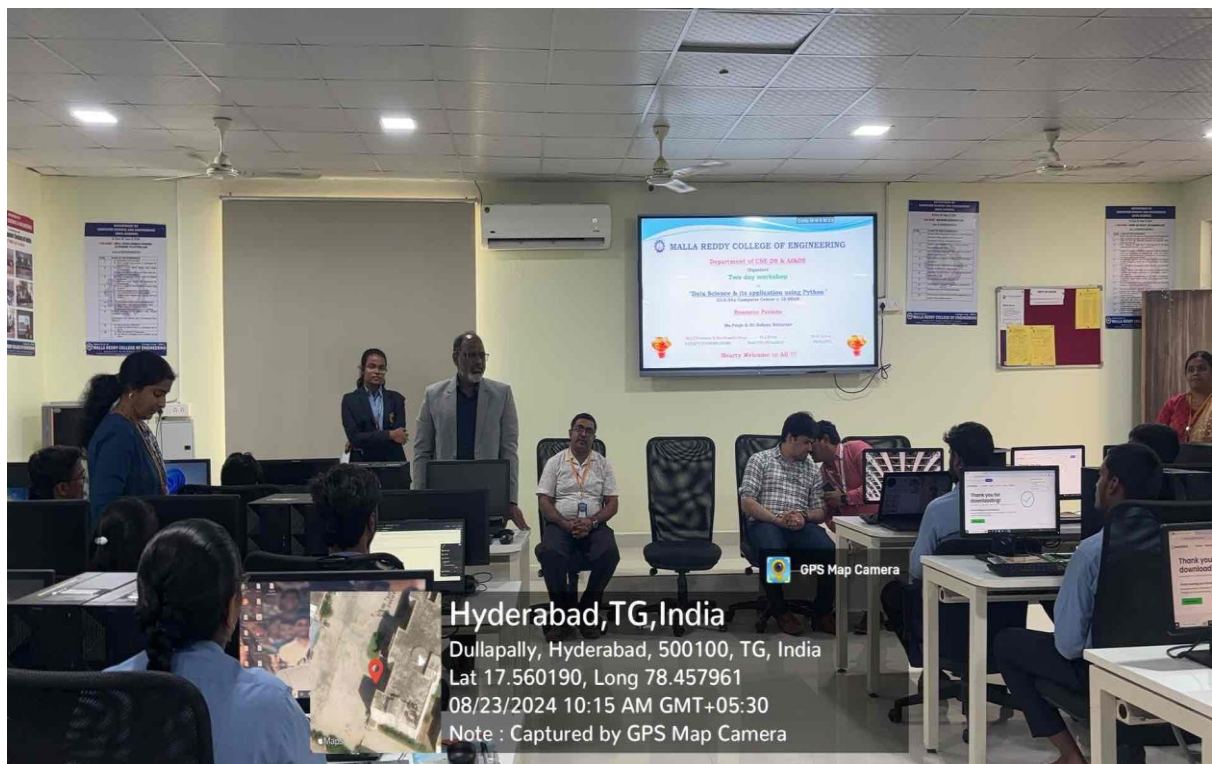
## CSE- DS II D SECTION

Sl.NO.	ROLL NUMBER	NAME OF THE STUDENT
1.	23Q91A67J0	AKULA SAI KIRAN
2.	23Q91A67J5	BHARATH SPANDANA
3.	23Q91A67K2	C MEGHANA
4.	23Q91A67K5	EEDALA PRASHANTH
5.	23Q91A67K7	GADDAMEDDI NIKHIL SAGAR
6.	23Q91A67L4	KASLABAD SAIKIRAN
7.	23Q91A67L5	KESAPURI KARTHIK
8.	23Q91A67L7	KONDETI LALITH KUMAR
9.	23Q91A67M2	MACHUNURI VAMSHI CHAITANYA
10.	23Q91A67M8	NALAKURTHI PRAVALIKA
11.	23Q91A67N6	PAPPULA HASWITHA POOJA
12.	23Q91A67P0	PODISHETTI SANDHYA
13.	23Q91A67P4	RAJENDRAN THARUN KUMAR
14.	23Q91A67P9	TIRUMANI VIJAYENDRA VARMA
15.	24Q95A6715	SRI PERAMBUDUR AKHILA

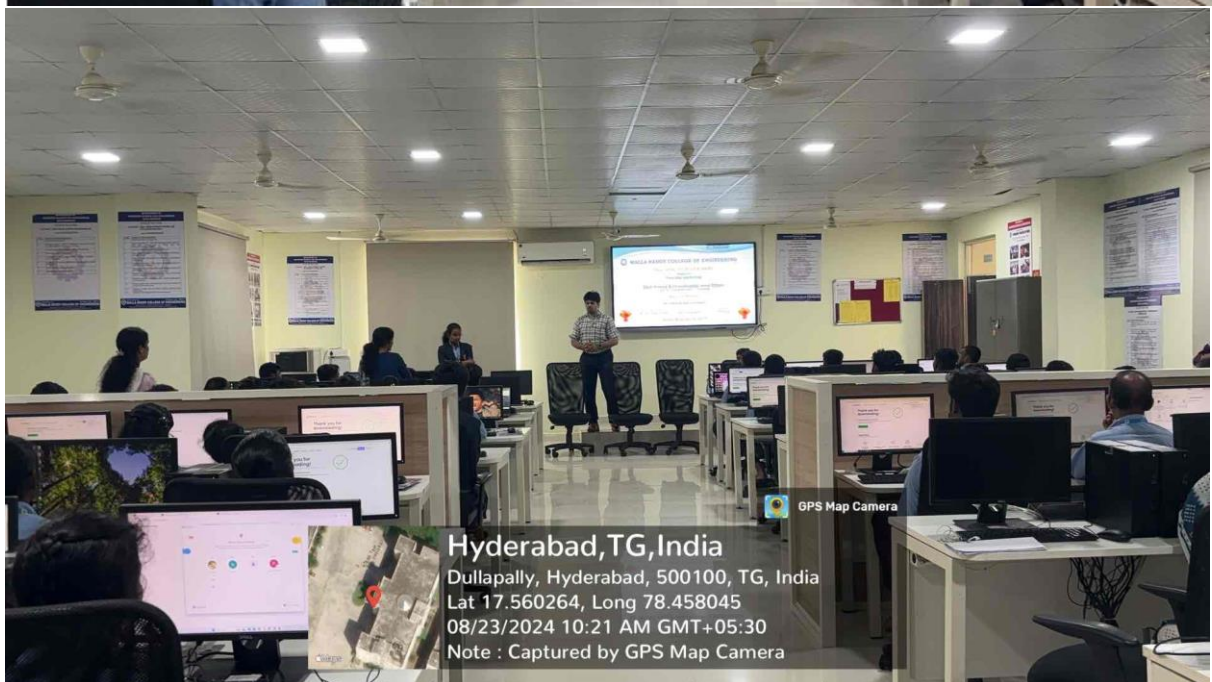
# WORKSHOP PHOTOS

## INAUARATION PROGRAM

### SPEECH BY PRINCIPAL SIR REGARDING WORKSHOP

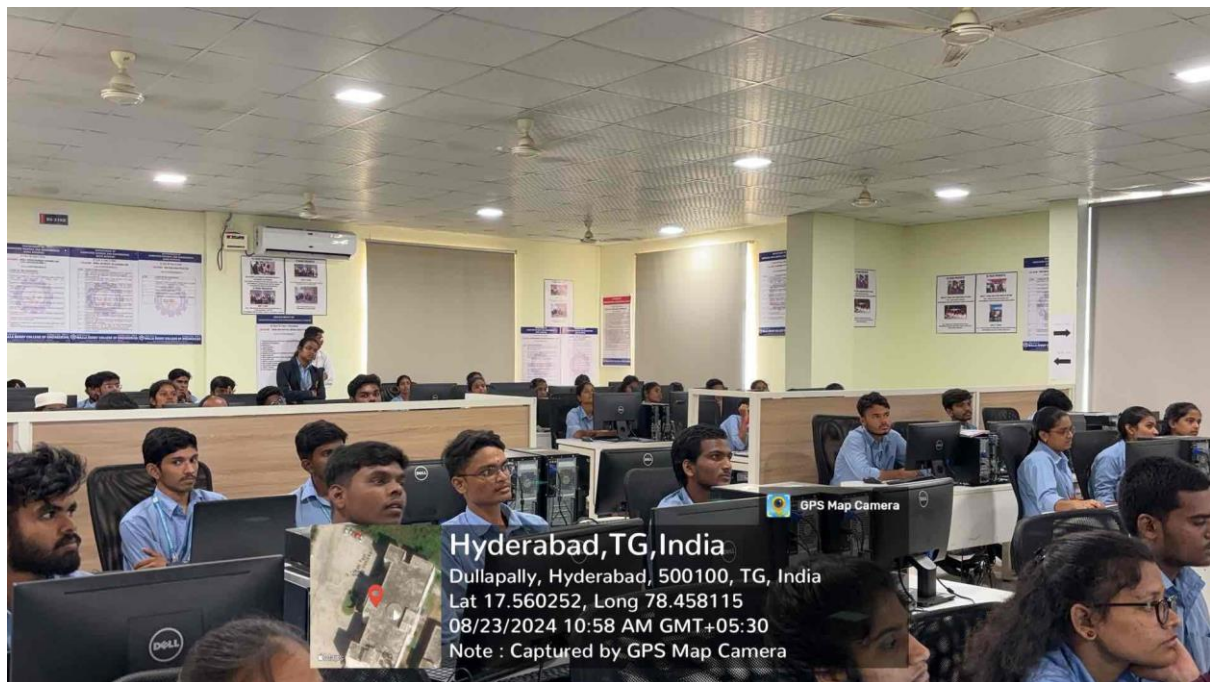


## SPEECH BY GUEST SPEAKER



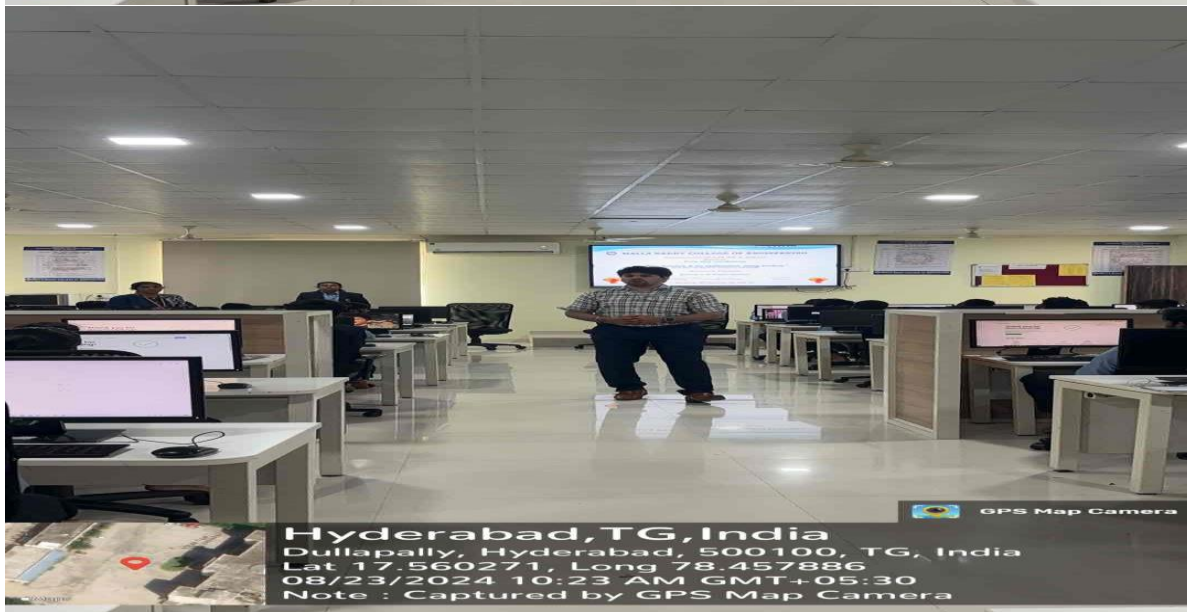


## STUDENTS PARTICIPATING IN WORKSHOP



## GUEST SPEAKER POOJA IS EXPLAINING ABOUT PYTHON MODULES







## CERTIFICATE DISTRIBUTION ON LAST DAY









Hyderabad,TG,India

Dullapally, Hyderabad, 500100, TG, India

Lat 17.560392, Long 78.457846

08/24/2024 03:53 PM GMT+05:30

Note : Captured by GPS Map Camera

Timestamp	E-MAIL	NAME	SECTION	CONATCT NO	The workshop content w	The facilitators were	The instructor was a good	What did you most apprec	Overall rating	Any other remarks						
8/24/2024 15:42:36	23Q91A6775@mrce.in	Srinidhi Chalapakally	CSD -B	9398016325	5	5	5	5 The explanation	5	Excellent						
8/24/2024 15:43:00	Prashanthedada394@ggr	Prashanth	D	9059656533	5	5	5	5 The way they with us...fri	5	No remarks						
8/24/2024 15:43:08	23q91a673@mrce.in	Thati Ashok Kumar	C	830950114	4	4	4	4 The best thing was they g	4	Nothing else						
8/24/2024 15:43:27	23q91a6785@mrce.in	Gulle Sangamesh	B	7569543565	5	5	5	5 Time	5	The workshop should be conducted for more duration						
8/24/2024 15:43:36	23q91a6796@mrce.in	Kolla Satya Sri Ram Char	B	7780627515	5	4	5	5 Faculty and explanation	5	Wifi wasn't working good						
8/24/2024 15:43:40	23Q91A6725@mrce.in	Korivadakirankumar	CSD-A	7989235681	3	5	5	5 Maximum the workshop is	4	Useful workshop						
8/24/2024 15:43:57	23Q91A67J5@mrce.in	B. Spandana	D	7337033719	5	5	5	5 Every thing was good	4	No remarks						
8/24/2024 15:44:05	23Q91A67G4@mrce.in	M.srikumar	C	7893165124	5	3	5	5 Some what network issue	4	Improve network availability						
8/24/2024 15:44:07	k.nuthansai@gmail.com	Kolli nuthan sai	B	6301544949	4	4	5	5 The information shared w	5	Would like to have better facilities like better computers and internet.						
8/24/2024 15:44:14	23q91a67f6@mrce.in	M.Sai Thirisha	C	8523868182	4	4	5	5 Need more explanation	4	No						
8/24/2024 15:44:17	meekshipatel@gmail.com	meekshitha	a	9121923724	5	5	5	5 communicate with student	4	good explaining						
8/24/2024 15:44:32	rahujaini800@gmail.com	Jaini Rahul	CSE(DS) - C	7842772468	3	4	4	4 No	4	No						
8/24/2024 15:44:33	23Q91A67E6@mrce.in	JANMANCHI VIGNESH	C	7670833662	1	2	1	1 New kind of experience g	2	Nothing else						
8/24/2024 15:44:42	sriperambudurakhila@gm	Sp akhila	D	6303294665	5	5	5	5 They are doing well I think	5	No remarks						
8/24/2024 15:44:44	23q91a67j0@mrce.in	Akula Saikiran	Csd -d	7793936721	4	4	4	4 Good	4	Nothing						
8/24/2024 15:45:00	23Q91A6701@mrce.in	Aditya Singh	CSD-A	9795075062	5	5	5	5 Excellent explanation no r	5	No						
8/24/2024 15:45:04	vamshichaitanya13@gma	Machunuri Vamshi chaita	CSD-D	9898688494	4	4	4	4 We want some more adva	4	Network issue						
8/24/2024 15:45:29	nikhilsagar2316n@gmail.	Nikhil sagar	CSD-D	7794910342	5	5	5	5 Ya this is a very interest	5	Lab should improve System are not working properly , The internet connectivity should improve a lot						
8/24/2024 15:45:32	23q91a67p9@mrce.in	T Vijayendra Varma	DS -D	9000831236	4	4	4	4 No	4	No						
8/24/2024 15:45:35	23Q91A67L5@mrce.in	K.karthik	CSD -D	7780343895	4	4	4	4 No	4	No						
8/24/2024 15:45:42	23Q91A67K2@mrce.in	C. Meghana	D	7893086483	5	4	5	5 Trainers	5	No remarks						
8/24/2024 15:46:01	23Q91A67P4@mrce.in	Rajendran Tharun Kumar	CSE-DS-D	9160744380	4	4	4	4 Content of workshop	4	No						
8/24/2024 15:46:04	23q91a6739@gmail.com	Jayasri	Csd A	8374120921	5	4	5	5 Explored and learnt new c	4	.						
8/24/2024 15:46:40	23Q91A67C0@mrce.in	Bharathi sankar	Csd-b	7330855497	5	5	5	5 Very well teaching and go	5	No						
8/24/2024 15:46:47	ar81655261@gmail.com	SHAIK ABDUL RASHID	CSD -A	8919332403	4	4	4	4 Nothing	4	No						
8/24/2024 15:46:52	Kksai1875@gmail.com	K. Saikiran	D	9391462572	5	5	5	5 Yes, the think was best at	5	Improve the internet, it is the main issue.						
8/24/2024 15:47:26	23Q91A6788@mrce.8n	Jalidhi Srujan raj	Csd_B	9959822189	5	5	5	5 Showing the animated sci	4	No						
8/24/2024 15:47:27	23q91a6772@mrce.in	Bikas parida	CSE(DS) -B	7993149306	5	5	5	5 Very well teaching and ap	5	No						
8/24/2024 15:47:28	23Q91A67G1@mrce.in	M.pranaya	CSD-C	8374313205	5	5	5	5 Python	5	No						
8/24/2024 15:47:35	23Q91A67P0@mrce.in	Podishetti Sandhya	D	9440692294	3	4	4	4 There is no improvement	4	Network problem						
8/24/2024 15:48:14	rvaishnavimudra28@gm	R. Vaishnavi	CSD'c'	9502071203	5	5	5	5 We had learnt a new thing	5	To learn more information about the coding						
8/24/2024 15:48:29	23q91a6763@gmail.com	YASH KUMAR SINGH	A	8977699248	5	5	5	5 Clearing our doubts	5	No						
8/24/2024 15:55:37	23Q91A6718@mrce.in	Gangula Srija	A	6302801933	5	5	5	5 Best about the course	5	Very useful						
8/24/2024 15:56:31	23Q91A6706@mrce.in	C. AKSHITHA	CSE-DS-A	7386106438	5	5	5	5 VERY GOOD COMMUNH	5	Very useful session for our career this session helped revised us revised python basics and work on new framework like django,jupyter and pycharm .						
8/24/2024 15:57:18	pranathinb21@gmail.com	Pranathi Nyallapogula	A	9063955702	4	3	3	3 nothing	4	no all good						
8/24/2024 15:57:51	vyshuamm075@gmail.ci	Suram Vyshnavi	A	8179422958	4	5	5	5 Enjoy	5	Nothing						
8/24/2024 16:40:15	23Q91A6708@mrce.in	CHOWDABOINA SWETH	CSD-A	8790011203	5	5	5	5 Explained clearly	4	Nothing						
8/24/2024 17:12:48	23Q91A67H4@mrce.in	P.Sourish Reddy	C	8919923567	4	3	4	4 We know about python lai	5	Network issue and computer hand issue						



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Department of Computer Science and Engineering-(Data Science) & AI&DS

## INNOVISTA

### *Certificate of Participation*

This is to certify that

Mr./Ms. Regula Meekshitha CSE-DS

II year has actively participated & completed 5 days workshop  
on "DATA SCIENCE & IT'S APPLICATION USING PYTHON"  
from 20-08-24 to 24-08-24.

T.Nagar Praveena

Faculty Co-ordinator

Dr.J.Britto

HOD-CSD/AI&DS

Dr.M.Ashok

Principal





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