



SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY
(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai & Accredited by NAAC)
Dindigul-Palani Highway, Dindigul

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

14.02.2023

CIRCULAR

The Department of CSE has planned to conduct a **Technology Training** for **III year - CSE** students on "**Data Science using Python**", by CADD CAE Technology, Coimbatore from 20.02.2023 to 03.03.2023 (10 days) at CSE lab I. All our third year students are expected to attend this training without fail.

*C. Prabhu
14/2/23*

Programme Co-Ordinators:

Dr.G.Prabhu, ASP/CSE
Mrs.K.Sureka, AP/CSE
Mrs. N.J Divya, AP/CSE

*G. L. K
14/2/23*

HoD/CSE
(Dr.C.Sujatha)

D. S. K

Principal
(Dr.D.Senthil Kumaran)

01.02.2023

From

Dr.C.Sujatha,
Prof & Head /CSE,
SSM Institute of Engineering and Technology,
Dindigul – Palani Highway,
Dindigul.

To

The Principal,
SSM Institute of Engineering and Technology,
Dindigul – Palani Highway,
Dindigul.

Respected Sir,

Sub: Requisition for conducting Technology Training on Data Science using Python-reg.

We wish to bring to your kind notice that a Technology Training is planned to be conducted for III CSE on "**Data Science using Python**", by CADD CAE Technology, Coimbatore from 20.02.2023 to 3.03.2023 (10 days). In this regard, we seek your permission for the conduct of the training programme.

1. C.R
2/2/23
2. D.S
2/2/23
3. N.J.D
2/2/23

Thanking you,

Yours faithfully,

6.4.15
2/2/23
(Dr.C.Sujatha)

Programme Co-Ordinators:

Dr.G.Prabhu, ASP/CSE

Mrs.K.Sureka, AP/CSE

Mrs. N.J Divya, AP/CSE

K
B
2/2/23

06.03.2023

From

Dr.C.Sujatha,
Prof & Head /CSE,
SSM Institute of Engineering and Technology,
Dindigul – Palani Highway,
Dindigul.

To

The Principal,
SSM Institute of Engineering and Technology,
Dindigul – Palani Highway,
Dindigul.

Respected Sir,

Sub: Requisition for Invoice approval for Technology Training on Web Development-reg.

We wish to bring to your kind notice that we had successfully organized the Technology Training for III CSE on "**Data Science using Python**", by CADD CAE Technology, Coimbatore from 20.02.2023 to 02.03.2023 (9 days).

Fee per student is Rs. 1750/- Total number of students attended the program were 57. Hence total amount to be paid with GST is Rs. 117705/- (Rupees One Lakh Seventeen Thousand Seven Hundred and Five only).The invoice is attached for reference. Kindly approve the same.

Thanking you,

Yours faithfully,

(Dr.C.Sujatha)

Programme Co-Ordinators:

Dr.G.Prabu, ASP/CSE
Mrs.K.Sureka, AP/CSE
Mrs.N.J.Divya, AP/CSE

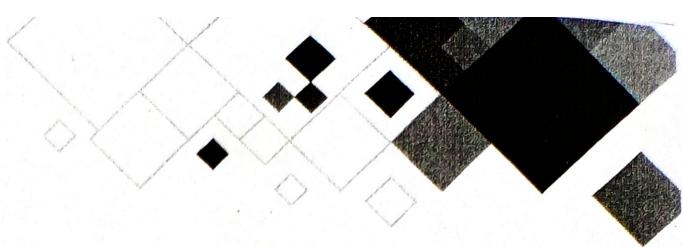


CADD TECHNOLOGIES™

SCHOOL OF DESIGN PRIVATE LIMITED

CAD / CAM / CAE Training Centre

An ISO 9001 : 2015 Certified Company



33, Rajaji Road, Ram Nagar, Gandhipuram, Coimbatore - 641 009.
+91 99422 24219

corporate@caddtechnologies.com
www.caddtechnologies.com

INVOICE

01.03.2023

Invoice No: CTS / SSMIET / 22-23 / 20

To,

The Principal,
SSM Institute of Engineering and Technology,
Dindugal-Palani Bye Pass,
Dindigul.

S.No	Description	No.Of Students/Slot	Rate/Student	Amount
01.	Training on Python with Data Science	57	1750	99750.00
	Add: CGST 9%			8977.50
	SGST 9%			8977.50
	Total			117705.00

(Rupees One Lakh Seventeen Thousand Seven Hundred and Five only)

Bank Details:

Account No: 0187360000000147

Account with: DBS- LVB Bank Ltd

IFSC: DBSS0IN0187

Our GST No: 33AAECC9084H1ZJ, PAN: AAECC9084H

Thanking you,

Yours Faithfully,

For CADD Technologies School of Design Private Limited,

V. Venkatesan
01/03/2023



N.Venkatraman
Director, Head- Marketing and HR
+91 9842003196



SSM

INSTITUTE OF ENGINEERING AND
TECHNOLOGY

APPROVED BY AICTE, NEW DELHI | AFFILIATED TO ANNA UNIVERSITY, CHENNAI
ACCREDITED BY NAAC | ACCREDITED BY NBA (ECE, EEE, MECH UG PROGRAMS)

Technology Training

Data Science using Python

by CADD CAE Technology, Coimbatore

For III Year CSE



Date

From 20.02.2023
to 03.03.2023



Venue

CSE lab II

HOD/CSE

Dr. C. Sujatha

Principal

Dr. D. Senthil Kumaran

Data Science with Python

Duration - 40 hours

Course objective:

This program is intended to students have in-depth knowledge of the many approaches, aptitudes, methodologies, and instruments needed to deal with corporate data. Courses provide specialized knowledge and instruction in statistics, programming, algorithms, and other analytical subjects. Students receive instruction in the abilities needed to find the needed solutions and assist in making significant judgments.

Course Modules:

- Introduction to Data Science
- Mathematical and Statistical Skills
- Machine Learning Algorithms
- Data Warehousing
- Data Mining
- Data Visualization
- Project Deployment Tools
- Predictive Analytics and Segmentation
- Exploratory Data Analysis

Library Required:

- NumPy
- Data wrangling
- Data exploration
- Data visualization
- Hypothesis building
- Pandas
- Matplotlib

ANACONDA:

Learn how to use Anaconda to manage packages and environments for use with Python.

JUPYTER NOTEBOOKS

Learn how to use Jupyter Notebooks to create documents combining code, text, images, and more.

NUMPY BASICS

Learn the value of NumPy and how to use it to manipulate data for AI problems.

Mini-Project 1:

Use NumPy to mean normalize an array and separate it into several smaller ND arrays.

PANDAS BASICS

Learn to use Pandas to load and process data for machine learning problems.

Mini-Project 2:

Use Pandas to plot and get statistics from stock data

MATPLOTLIB BASICS

Learn how to use Matplotlib to choose appropriate plots for one and two variables based on the types of data you have.

Assignments:

- Change the legend position in Matplotlib
- How to Change Legend Font Size in Matplotlib?
- How Change the vertical spacing between legend entries in Matplotlib?
- Use multiple columns in a Matplotlib legend
- How to Create a Single Legend for All Subplots in Matplotlib?
- How to manually add a legend with a color box on a Matplotlib figure?
- How to Place Legend Outside of the Plot in Matplotlib?
- Remove the legend border in Matplotlib

Project:

- Gender Detection and Age Prediction
- Sentimental Analysis
- Project on Diabetic Retinopathy
- Loan Prediction

Resource Person Profile

ATHEESH KUMAR S

IT - Trainer

ctgatheeesh@gmail.com



Educational Credentials:

Professional Degree: MCA

Bharathiar University, Coimbatore

Work Experience:

S.No	Organization	Designation	Total Years
1	IT, Division of CADD TECHNOLOGIES	<i>IT - Trainer</i>	3 Months
2	Falcon Orange Technologies	<i>Software Developer</i>	1 Year 2 Months
Total years			1 Year 5 Months

Technical Skills:

Operating systems: Windows 7/8.1/10/11

Research Tools : HTML , CSS, JavaScript, React js & Node js

Embedded Tools : Python

Professional Experience:

- Having Hands on experience in software development field in Digital-Product unit.
- Done the Project - Substrates Inventory Management system using python and JavaScript for B2B Customer.
- Provided Training for Arts, B.E. students as well as Research Scholars from Various Institutions in and around Tamilnadu.
- Active in Self Learning Tools.



SSM Institute of Engineering and Technology, Dindigul

Dindigul – Palani Highway, Dindigul – 624 002

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Department of Computer Science and Engineering

Name of the Program: Technology Training on “Data Science with python”

Mr Atheesh Kumar S,

Name of the Guest: IT Trainer,
CADD CAE Technologies,
Coimbatore.

Venue: CSE Lab - 1

Timing: 09.00 a.m. to 03.15 p.m.

Attendance Sheet – (III – Year CSE)

S. N o	Register Number	Name of the Participant	Signature of the Participant					
			20.02.23		21.02.23		22.02.23	
			F.N	A.N	F.N	A.N	F.N	A.N
1	922120104001	ABINAYA G	Abinaya	Abinaya	Abinaya	Abinaya	Abinaya	Abinaya
2	922120104002	ABINAYA T	Abinaya	Abinaya	Abinaya	Abinaya	Abinaya	Abinaya
3	922120104003	AKALYA A N	AKALYA	AKALYA	AKALYA	AKALYA	AKALYA	AKALYA
4	922120104004	ANU P	Anu	Anu	Anu	Anu	Anu	Anu
5	922120104005	ASHOK KUMAR M	ASHOK	ASHOK	ASHOK	ASHOK	ASHOK	ASHOK
6	922120104006	ASMETAA G Y	ASMETAA	ASMETAA	ASMETAA	ASMETAA	ASMETAA	ASMETAA
7	922120104007	BALASURYA R	BALASURYA	BALASURYA	BALASURYA	BALASURYA	BALASURYA	BALASURYA
8	922120104008	BHOOMIKA R	BHOOMIKA	BHOOMIKA	BHOOMIKA	BHOOMIKA	BHOOMIKA	BHOOMIKA
9	922120104009	DINESH RAJA E	DINESH	DINESH	DINESH	DINESH	DINESH	DINESH

SSM Institute of Engineering and Technology, Dindigul

Dindigul – Palani Highway, Dindigul – 624 002

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Dindigul – Palani Highway, Dindigul – 624 002

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52	922120104056	SRIRAM PRASATH L	20/20	20/20	20/20	20/20	AB	AB	20/20
53	922120104057	SUBBIRAMANI R	Subb Subb	Subb	Subb	Subb	Subb	Subb	Subb
54	922120104058	SUBHA S	Subby Subby	Subby	Subby	Subby	Subby	Subby	Subby
55	922120104059	TAMIL ARASAN K	Tam Tamil	Tamil	Tamil	Tamil	Tamil	Tamil	Tamil
56	922120104060	VARSHINI U	Vard Varshini						
57	922120104061	VINOOTH KUMAR A	Vin Vinoth	AB	PC	Vinoth Vinoth	Vinoth Vinoth	Vinoth Vinoth	Vinoth Vinoth
58	922120104301	SRIRAM V M	20/20	20/20	20/20	20/20	20/20	20/20	20/20

G24B
HOD/CSE
S



SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Academic Year : 2022-2023 (Even Semester)
Batch:2020-2024 Year: III Semester: VI

TECHNOLOGY TRAINING ATTENDANCE SHEET

S.No	Register Number	Name of the Student	27/2/23		28/2/23		1/3/2023		2/3/2023		3/3/2023	
			FN	AN	FN	AN	FN	AN	FN	AN	FN	AN
38	922120104041	SANJEEV SARAVANAN S	Sanjeev	Sarvanan	Sanjeev	Sarvanan	Sanjeev	Sarvanan	-	-	-	-
39	922120104042	SANTHIYADHARSHINI S	Santhi	Sathy	Santhi	Sathy	Santhi	Sathy	-	-	-	-
40	922120104043	SANTHOSH R	Santhosh	Santhosh	Santhosh	Santhosh	Santhosh	Santhosh	-	-	-	-
41	922120104044	SARAN PANDIAN S	Saran	Pandian	Saran	Pandian	Saran	Pandian	-	-	-	-
42	922120104045	SATHEESH KUMAR K	Satheesh	Kumar	Satheesh	Kumar	Satheesh	Kumar	-	-	-	-
43	922120104046	SHALINI J	Shalini	J	Shalini	J	Shalini	J	-	-	-	-
44	922120104047	SHARMILA S	Sharmi	S	Sharmi	S	Sharmi	S	-	-	-	-
45	922120104049	SINDHUJA INFANT A	Sindhuja	Infant A	Sindhuja	Infant A	Sindhuja	Infant A	-	-	-	-
46	922120104050	SIVA SHANTHANA BHARATHI M	Siva	Shanthana	Siva	Shanthana	Siva	Shanthana	-	-	-	-
47	922120104051	SIVASUNDAR V	Sivasundar	V	Sivasundar	V	Sivasundar	V	-	-	-	-
48	922120104052	SOUNDHARYA DEVI M	Soundharya	Devi M	Soundharya	Devi M	Soundharya	Devi M	-	-	-	-
49	922120104053	SRIDHARAN S	Sridharan	S	Sridharan	S	Sridharan	S	-	-	-	-
50	922120104054	SRIRAM J	Sriram	J	Sriram	J	Sriram	J	-	-	-	-
51	922120104055	SRIRAM S	Sriram	S	Sriram	S	Sriram	S	-	-	-	-
52	922120104056	SRIRAM PRASATH L	Sriram	Prasath L	Sriram	Prasath L	Sriram	Prasath L	-	-	-	-
53	922120104057	SUBBIRAMANI R	Subbiramani	R	Subbiramani	R	Subbiramani	R	-	-	-	-
54	922120104058	SUBHA S	Subha	S	Subha	S	Subha	S	-	-	-	-
55	922120104059	TAMIL ARASAN K	Tamil Arasan	K	Tamil Arasan	K	Tamil Arasan	K	-	-	-	-
56	922120104060	VÄRSHINI U	Värshini	U	Värshini	U	Värshini	U	-	-	-	-
57	922120104061	VINOTH KUMARA	AB	AD	AB	AD	AB	AD	-	-	-	-
58	922120104301	SRIRAM VM	SRIRAM	VM	SRIRAM	VM	SRIRAM	VM	-	-	-	-

 FACULTY INCHARGE

 G.L.H
HOD/CSE



SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY
Dindigul - Palani Highway, Dindigul – 624 002

Department of Computer Science and Engineering

TECHNOLOGY TRAINING FEEDBACK FORM

Technology Training-Data Science with Python(Feedback form)

Questions Responses 57 Settings

Technology Training-Data Science with Python

Feedback Report

Email *

Valid email address

This form is collecting email addresses. Change settings

Register Number

Short answer

Required

111

Type here to search

24°C Sunny 10:36 AM 3/6/2023

Technology Training-Data Science with Python(Feedback form)

Questions Responses 57 Settings

4. Terminology Introduction

57 responses

Copy

21.1%

61.1%

17.4%

5

4

3

2

1

Type here to search

24°C Sunny 10:36 AM 3/6/2023

My Drive - Google Drive Technology Training-Data Science New Tab docs.google.com/forms/d/1elaqdjGrWpYrD4bS6FrT8GqgDs1PcL0M1geABEch0gA/edit#responses

Technology Training-Data Science with Python(Feedback form)

Questions Responses 57 Settings Copy

8. Lab Demonstration
57 responses

Response	Percentage
5	77.2%
4	19.3%
3	3.5%

9. Questions and Answer Sessions
57 responses

Response	Percentage
5	77.2%
4	19.3%
3	3.5%

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My Drive - Google Drive Technology Training-Data Science New Tab docs.google.com/forms/d/1elaqdjGrWpYrD4bS6FrT8GqgDs1PcL0M1geABEch0gA/edit#responses

Technology Training-Data Science with Python(Feedback form)

Questions Responses 57 Settings Copy

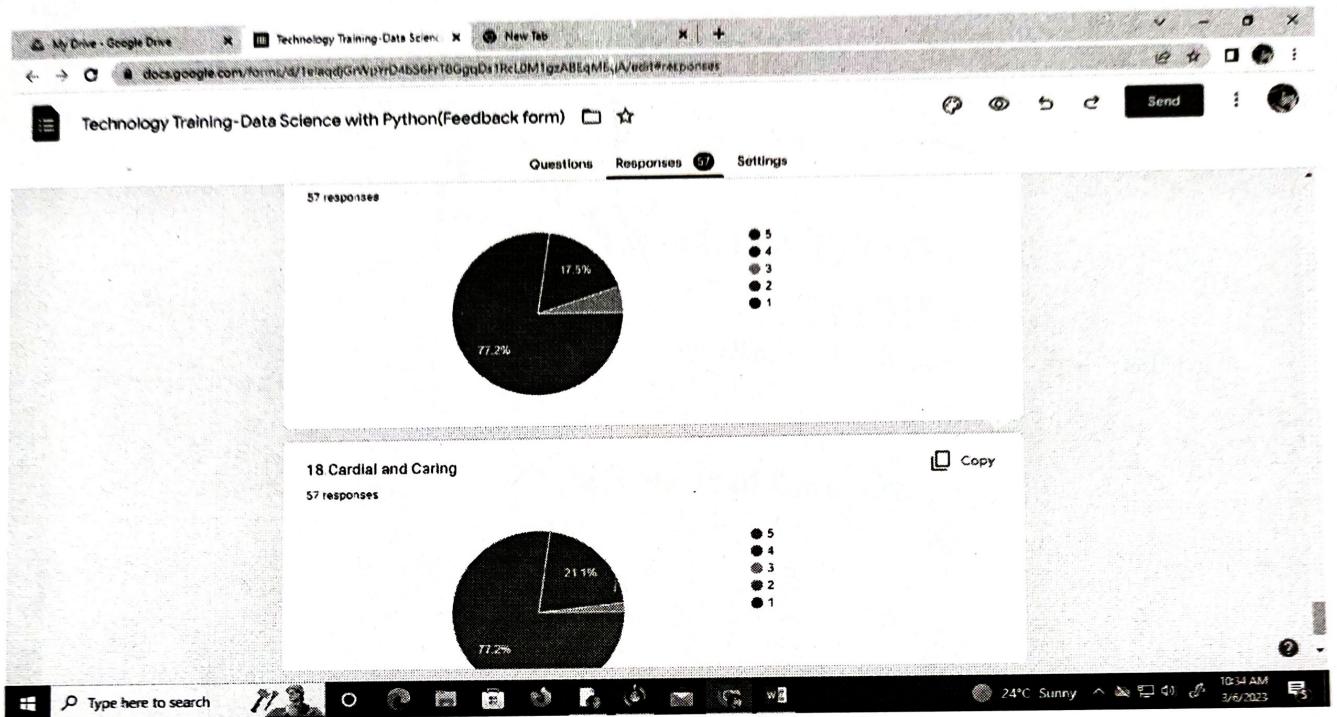
11. Practical Knowledge
57 responses

Response	Percentage
5	77.2%
4	19.3%
3	3.5%

12. Depth of Coverage
57 responses

Response	Percentage
5	77.2%
4	19.3%
3	3.5%

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SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

Dindigul - Palani Highway, Dindigul - 624 002

Department of Computer Science and Engineering

Technology Training Report

TOPIC	Datascience with Python
YEAR	III-CSE
TRAINER	Mr.Atheesh Kumar,CADD Technologies
DATE	20.02.2023 to 02.03.2023
VENUE	SSMIET-CSE Lab-I
TIME	9.00A.M-3.30P.M

1. *[Signature]* 2. *[Signature]* 3. *[Signature]*

Programme co-ordinators

Dr.G.Prabu ASP/CSE

Mrs.K.Sureka AP/CSE

Mrs.N.J.Divya AP/CSE

6.2.2023

HOD/CSE

(Dr.C.Sujatha)

[Signature]

PRINCIPAL

(Dr.D.Senthil Kumaran)

III Year CSE Students work with the given task.





Project Presentation by III CSE students





GPS Map Camera

Anaipatti, Tamil Nadu, India

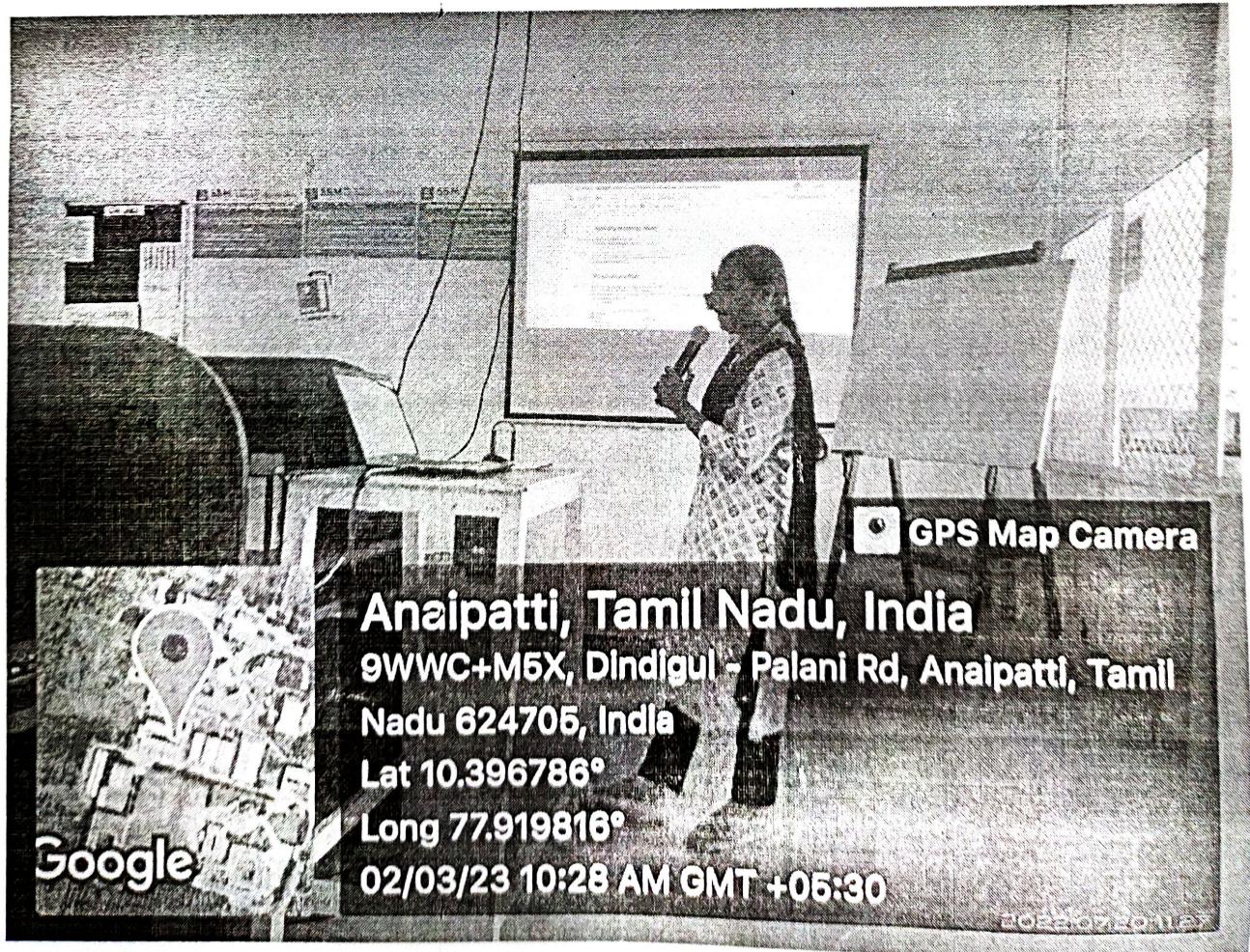
9WWC+M5X, Dindigul - Palani Rd, Anaipatti, Tamil Nadu 624705, India

Lat 10.396816°

Long 77.919507°

02/03/23 10:22 AM GMT +05:30

2023-07-20 11:27



GPS Map Camera

Anaipatti, Tamil Nadu, India

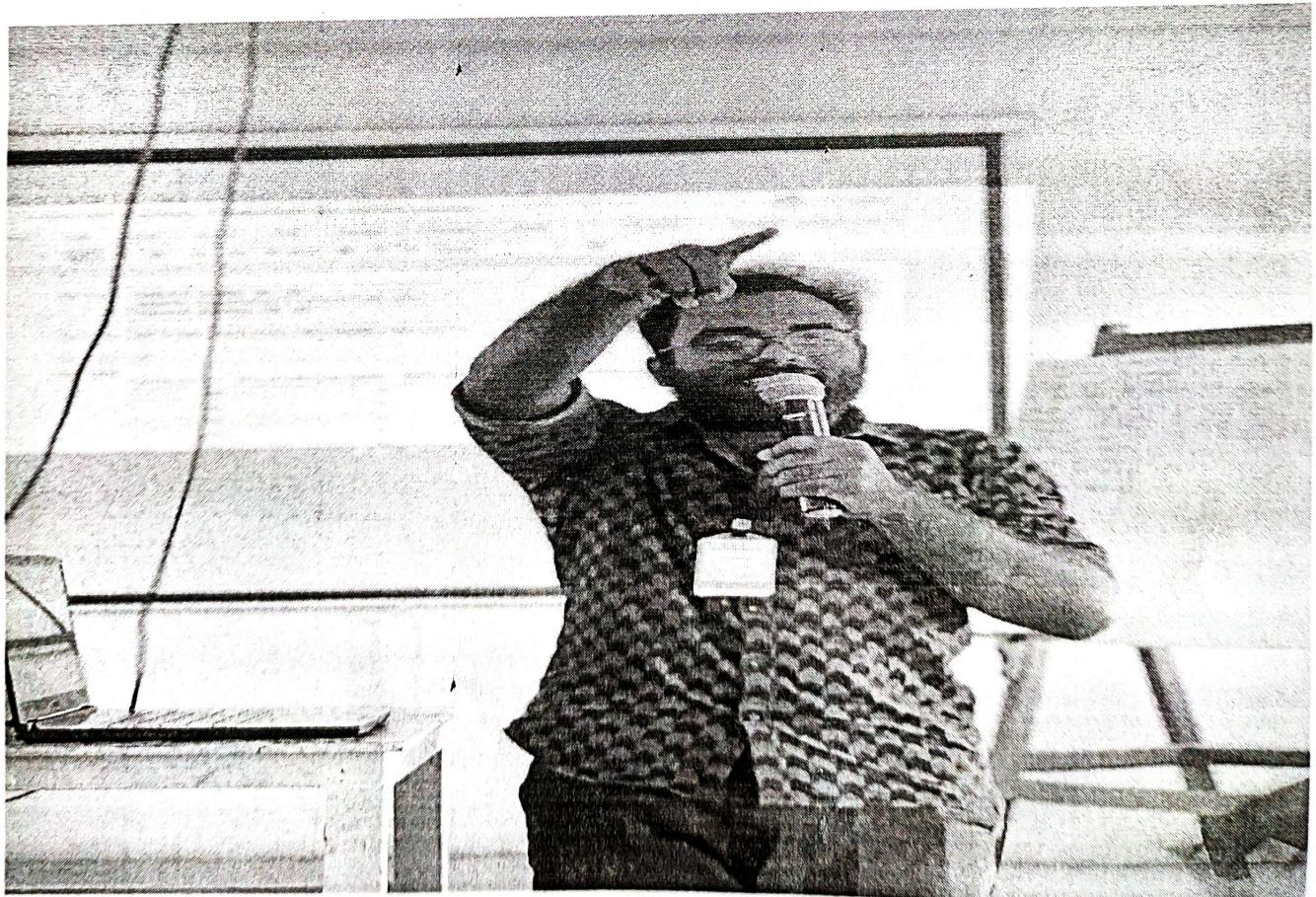
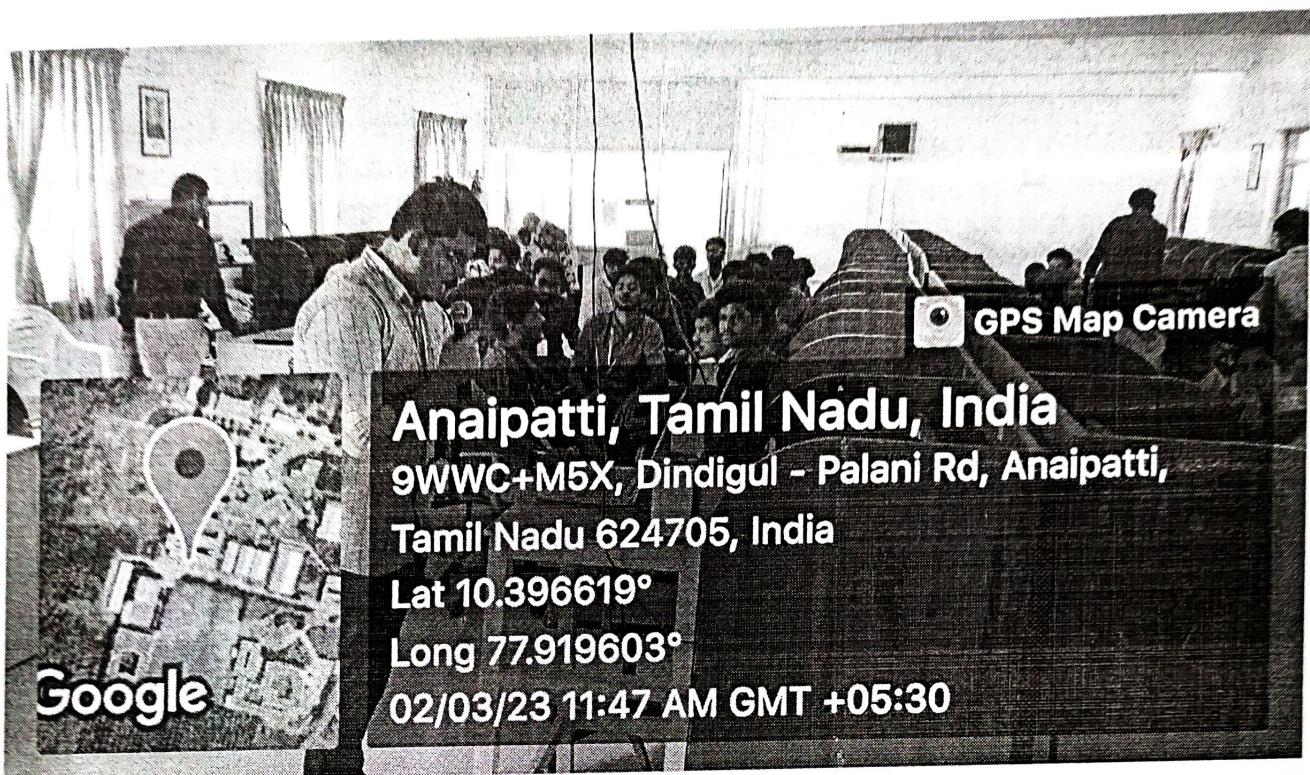
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Long 77.919816°

02/03/23 10:28 AM GMT +05:30

2023-07-20 11:27





 GPS Map Camera

Anaipatti, Tamil Nadu, India

9WWC+M5X, Dindigul - Palani Rd, Anaipatti,
Tamil Nadu 624705, India

Lat 10.396591°

Long 77.919533°

02/03/23 03:10 PM GMT +05:30

Google

PROJECT WORKS

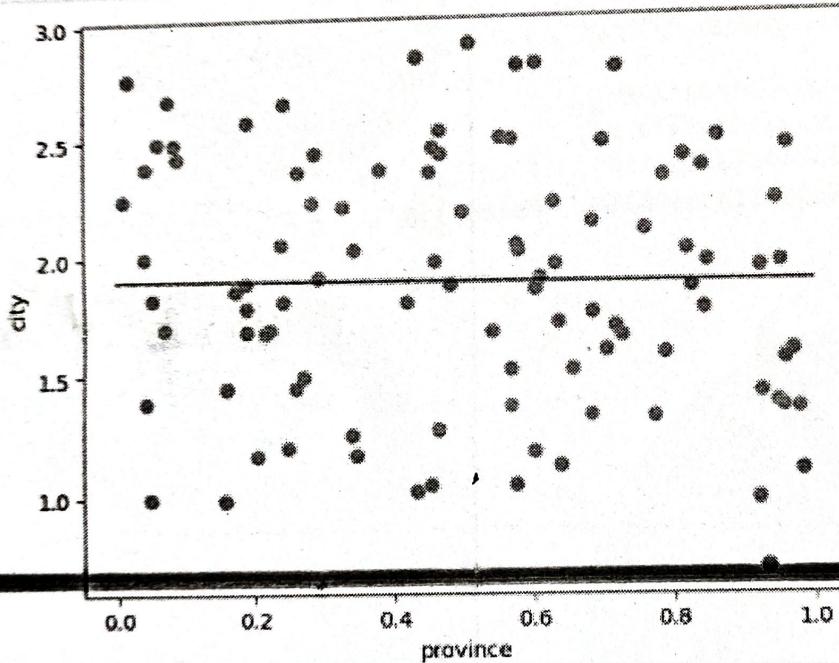
S.JOHANS PRAVEEN III CSE

```
[1]: dataset=pd.read_csv('Case.csv')
province = np.random.rand(100)
city = 2 * x + 1 + np.random.randn(100) * 0.2

def linear_regression(province, city):
    n = len(province)
    slope = (n * np.sum(province * city) - np.sum(province) * np.sum(city)) / (n * np.sum(province**2) - np.sum(province)**2)
    intercept = np.mean(city) - slope * np.mean(province)
    return slope, intercept

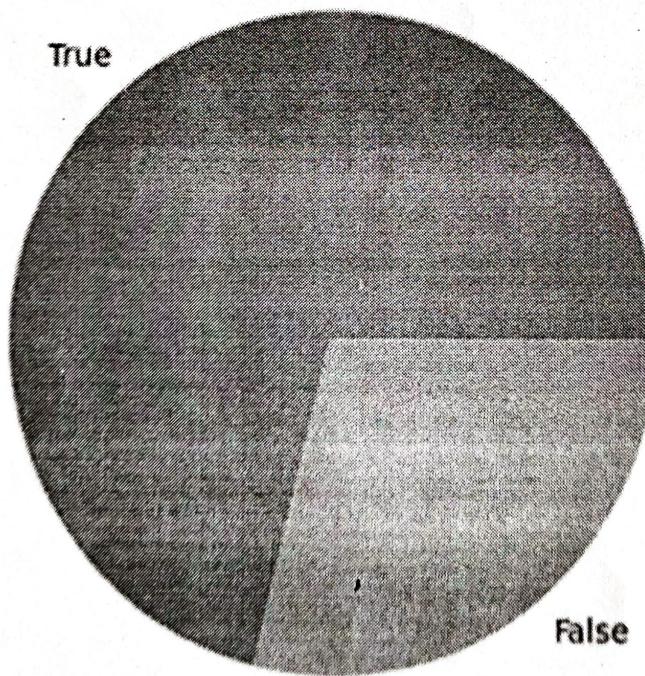
slope, intercept = linear_regression(province, city)
x_line = np.linspace(0, 1, 100)
y_line = slope * x_line + intercept

plt.scatter(province, city)
plt.plot(x_line, y_line, color='red')
plt.xlabel('province')
plt.ylabel('city')
plt.show()
```



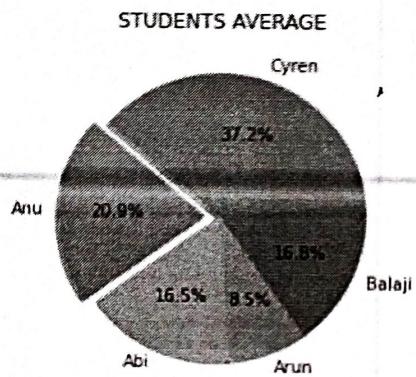
KARUPAIYA III CSE

```
4]: import matplotlib.pyplot as plt  
  
5]: attrition_count=pd.DataFrame(dataset['group'].value_counts())  
attrition_count  
  
6]:  
group  
_____  
True    124  
False    50  
  
7]: plt.pie(attrition_count['group'],labels=['True','False'],explode=(0,0))  
8]: ([<matplotlib.patches.Wedge at 0x22a43ee3ac0>,  
     <matplotlib.patches.Wedge at 0x22a43ee3fa0>],  
     [Text(-0.6813932103477295, 0.8635411356108145, 'True'),  
      Text(0.6813932103477294, -0.8635411356108146, 'False')])
```



SHALINI III CSE

```
[2]: import pandas as pd
import matplotlib.pyplot as plt
df=pd.read_csv("student.csv.csv")
stu_data=df["NAME"]
avg_data=df["AVERAGE"]
colors=["#1f77b4","#ff7f04","#2ca02c","#d62728","#8c564b"]
explode=(0.1,0,0,0,0)
plt.pie(avg_data,labels=stu_data,explode=explode,colors=colors,autopct='%.1f%%', shadow=True, startangle=140)
plt.title("STUDENTS AVERAGE")
plt.show()
```





SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY
Dindigul - Palani Highway, Dindigul - 624 002

Department of Computer Science and Engineering

Technology Training Evaluation Report

04-03-2023

Sl. No	Reg. No.	Name of the student	Total(100)
1	922120104001	ABINAYA G	80
2	922120104002	ABINAYA T	85
3	922120104003	AKALYA A N	87
4	922120104004	ANU P	83
5	922120104005	ASHOK KUMAR M	74
6	922120104006	ASMETAA G Y	72
7	922120104007	BALASURYA R	82
8	922120104008	BHOOMIKA R	86
9	922120104009	DINESH RAJA E	63
10	922120104010	EVANS ABRAHAM J	95
11	922120104011	HAREESWARAN S	88
12	922120104012	HARINI S	82
13	922120104013	JEEVA J	86
14	922120104014	JEYASHREE S	87
15	922120104015	JOHANS PRAVEEN S	93
16	922120104016	JOSEPHINE JESILA M	85
17	922120104018	KARUNYA M D	74
18	922120104019	KARUPPAIYA M	87
19	922120104022	LOGATHARANI S	72
20	922120104023	LOGESHWARI P	87
21	922120104024	LOKESH G	71
22	922120104025	MADHESH KUMAR D	80
23	922120104026	MOHAMED ARSATH M	87
24	922120104027	MOHAMED FAZIL J	88
25	922120104028	MOHAMED HADHI S	81
26	922120104029	MUGILAN M	87
27	922120104030	PARTHI PRASATH N	88
28	922120104031	PIRUTHVI RAMANA V	88
29	922120104032	POOJA M	87
30	922120104033	PRADEEP V	86



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Dindigul - Palani Highway, Dindigul – 624 002

Department of Computer Science and Engineering

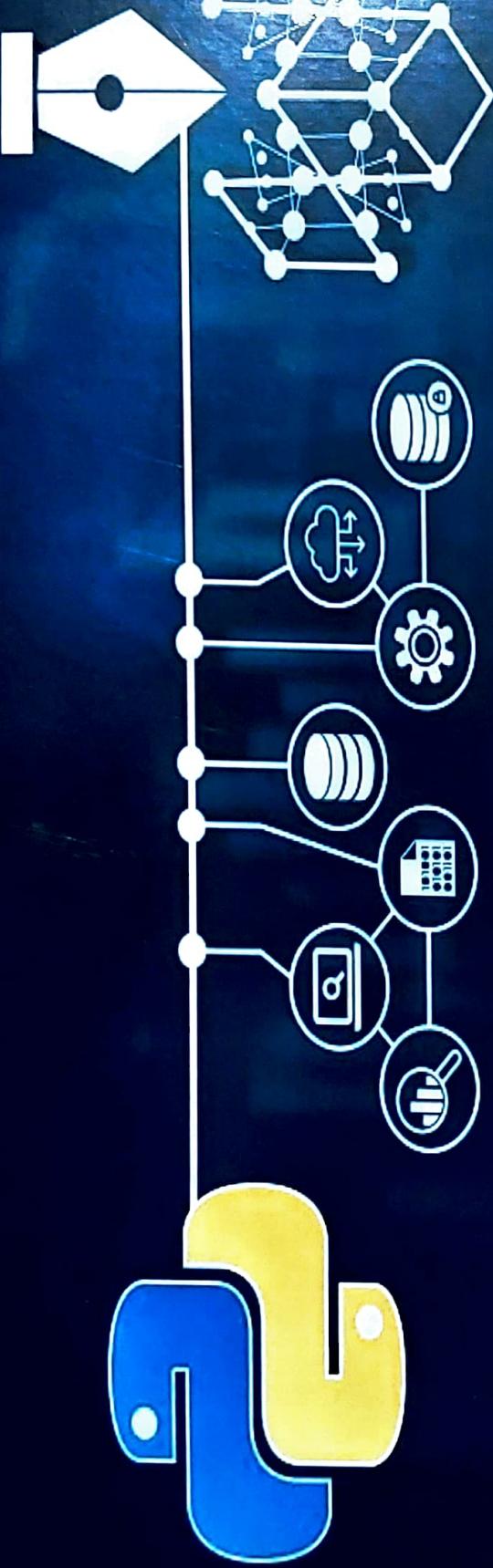
Technology Training Evaluation Report

31	922120104034	PRAKASH S	88
32	922120104035	PREETHIGA M	87
33	922120104036	PRETHEEBA U	81
34	922120104037	REENA M	75
35	922120104038	SABARIKRISHNAN R	86
36	922120104039	SAKTHI VIGNESHWARAN B	78
37	922120104040	SANJAY PANDI M	88
38	922120104041	SANJEEV SARAVANAN S	64
39	922120104042	SANTHIYADHARSHINI S	76
40	922120104043	SANTHOSH R	88
41	922120104044	SARAN PANDIAN S	80
42	922120104045	SATHEESH KUMAR K	87
43	922120104046	SHALINI J	88
44	922120104047	SHARMILA S	75
45	922120104049	SINDHUJA INFANT A	86
46	922120104050	SIVA SHANTHANA BHARATHI M	79
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56	922120104061	VINOOTH KUMARA	75
57	922120104301	SRIRAM V M	74

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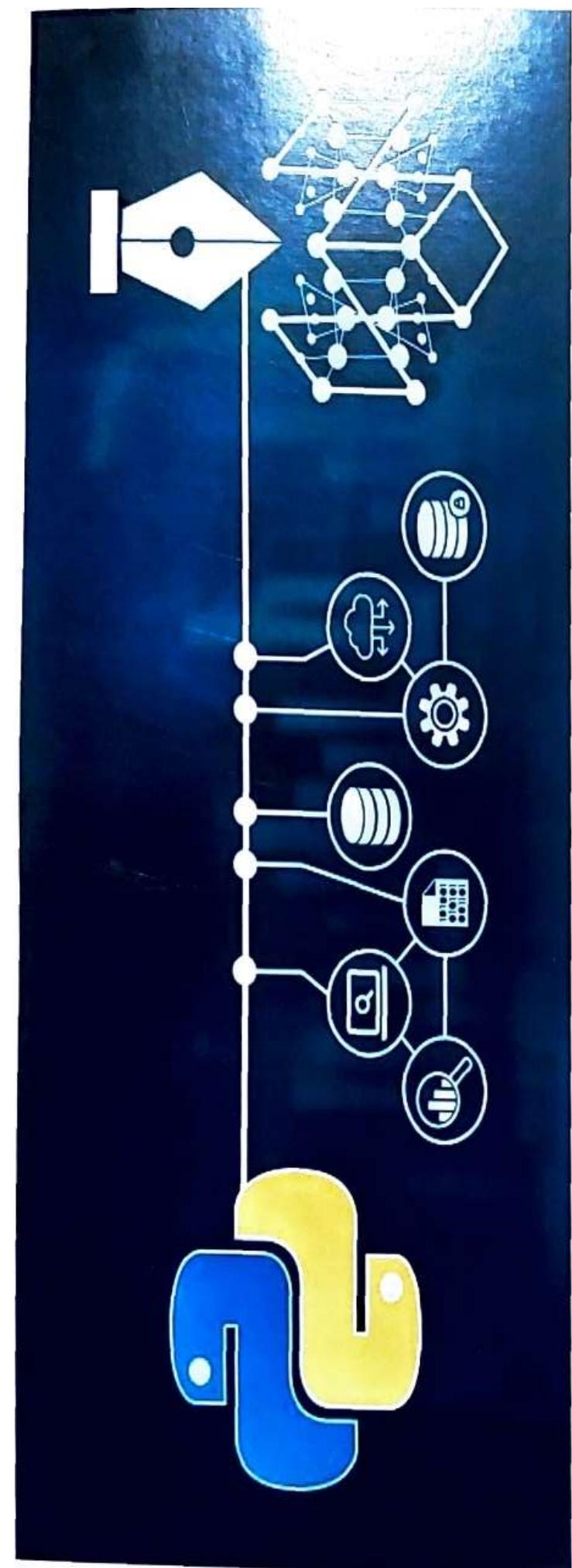
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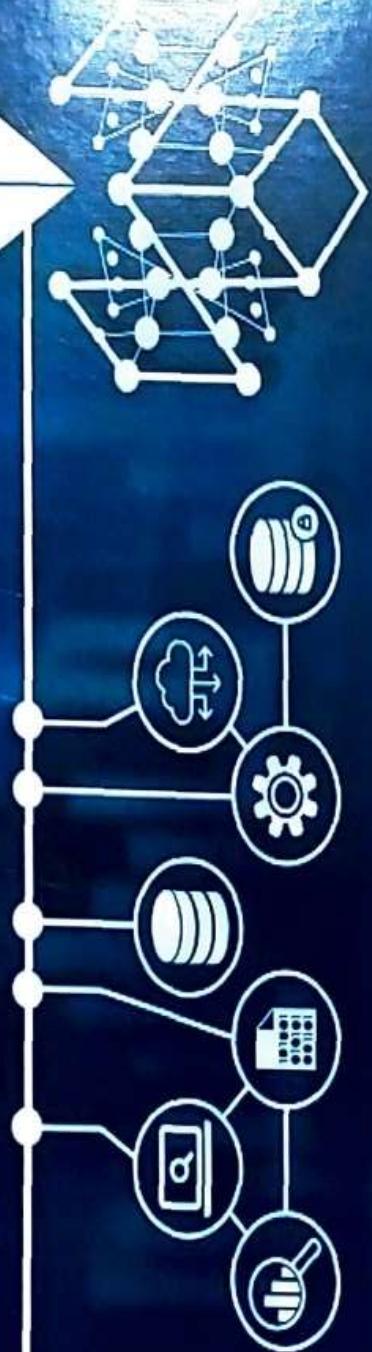
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ATHEESH KUMAR S
Instructor

20/02/2023
Course Starting Date

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Course Ending Date

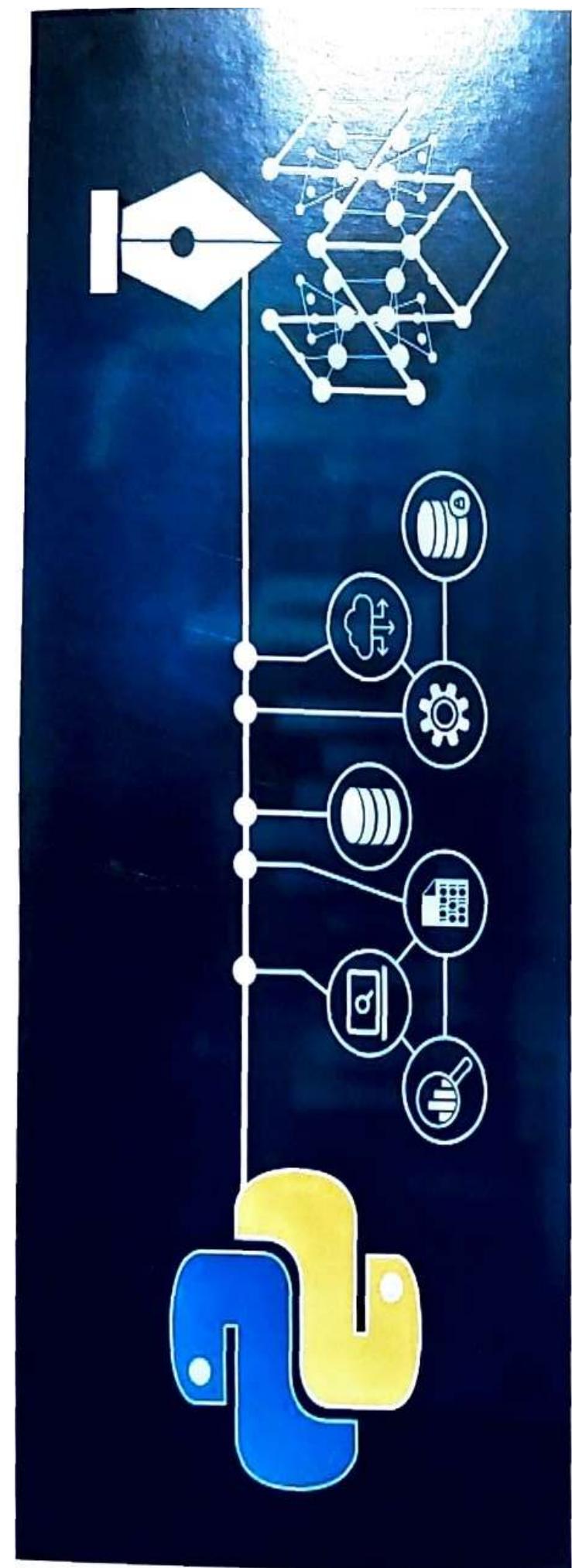


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Course Duration

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Instructor

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