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INSTITUTE OF SCIENCE & TECHNOLOGY  
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## **PROGRAMME REPORT ON**

### **Hands-on Training-“Python for Data Science”**

Resource Person

**Prof. P. ANTONY SEBA** Department of AI & Data Science  
Kumaraguru College of Technology Coimbatore - 641049, Tamil  
Nadu.

Organized by

**INFORMATICS- PMIST**



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## DEPARTMENT OF INFORMATICS

### Faculty of Computing Science and Applications (FCSA)

#### EVENT REPORT

1.	Event Category (Seminar / FDP / STTP / Workshop / Conference /...)	Short Term Training Programme (STTP)
2.	Title of the Programme	<b>Hands-on training on “Python for Data Science”</b>
3.	Period: <ul style="list-style-type: none"><li>• Date (From ___ to ___)</li><li>• Time</li></ul>	<ul style="list-style-type: none"><li>• 27 - 29, September 2024</li><li>• 9.00 AM to 4.00 PM</li></ul>
4.	Beneficiaries: <ul style="list-style-type: none"><li>• In-house / Others / Both</li><li>• Students / Faculty / Staff</li></ul>	<ul style="list-style-type: none"><li>• In-house</li><li>• Students</li></ul>
5.	NAAC / NBA / NIRF / Others	NAAC Criteria 5.3.1: 1 - Soft Skills NAAC Criteria 5.3.1: 4 - Awareness of trends in Technology
6.	Associated SDG(s)	4 and 8
7.	Mode: <ul style="list-style-type: none"><li>• Offline / Online</li><li>• Venue / Online Platform</li></ul>	<ul style="list-style-type: none"><li>• Offline</li><li>• New Lab - 2 (PKC 512)</li></ul>
8.	Coordinator(s) / Co-Coordinator(s)	Coordinator(s): Dr. A. MUTHAMIZH SELVAN Associate Professor and Head Co-Coordinator(s): Dr. V. RAJKUMAR, Asst. Prof. (SG) Dr. M. MANIKANDAN, Asst. Prof. Department of Informatics
9.	Resource Person(s)	Prof. P. ANTONY SEBA Department of AI & Data Science Kumaraguru College of Technology Coimbatore - 641049, Tamil Nadu.
10.	Number participants	<ul style="list-style-type: none"><li>• Female Students : 34</li><li>• Male Students : 30</li><li>• Total : 64</li></ul>

## **HANDS-ON TRAINING ON “PYTHON FOR DATA SCIENCE”**

The Department of Informatics organized a three-day hands-on training programme titled "Python for Data Science" from September 27–29, 2024 as an event of VISTA (Visionaries on Informatics in Science, Technology, and Analytics), the association of the Department of Informatics, aimed at equipping students with essential skills in data analytics and machine learning using Python. The training fostered practical knowledge and enhanced problem-solving abilities in real-world data science scenarios. The inaugural session featured a motivational address by the Vice-Chancellor, Prof. Dr. V. Ramachandran, who emphasized the relevance of Python in current technological trends and appreciated the expertise of the resource person. Prof. Seba Antony, Assistant Professor in AI & Data Science, Kumaraguru College of Technology, Coimbatore - 641049, Tamil Nadu conducted all three days of training with an engaging approach that combined theoretical concepts with practical exercises. The training sessions were designed to equip students with essential skills in Python programming, data analytics, machine learning, and data visualization. The sessions were interactive, combining theory and practice, enabling participants to gain hands-on experience with Python tools and techniques for data science applications.

This initiative aligns with the United Nations Sustainable Development Goals (SDGs), particularly SDG 4: Quality Education and SDG 8: Decent Work and Economic Growth, by fostering skill development and enhancing employability. The programme was coordinated by Dr. A. Muthamizh Selvan, Associate Professor and Head, with co-ordination by Dr. V. Rajkumar Assistant Professor (SG) and Dr. M. Manikandan, Assistant Professor, and all faculty and staff from the Department of Informatics.

### **Objectives**

1. To introduce students to Python programming and its applications in data science.
2. To provide practical exposure to data analytics, machine learning algorithms, and data visualization techniques.
3. To enhance skills in preparing datasets, building models, and evaluating machine learning performance.
4. To prepare students for academic projects, internships, and future careers in data science.



## Activities Conducted

1. Lectures and hands-on training on Python basics and data science fundamentals.
2. Practical exercises on data analytics using Python libraries such as NumPy, pandas, and Matplotlib.
3. Sessions on machine learning algorithms and their implementation with Python libraries.
4. Dataset preparation and transformation for predictive modeling and classification.
5. Exercises on data visualization techniques, model optimization and performance evaluation of machine learning algorithms.

## Outcomes

1. Students gained a comprehensive understanding of Python for data analytics and machine learning.
2. Acquired practical knowledge of building and evaluating machine learning models.
3. Improved skills in dataset preparation, transformation, and visualization for data science applications.
4. Enhanced ability to optimize code for efficient programming using Python techniques.
5. Developed readiness for academic projects, internships, and employment in data science and analytics.
6. Contributed to achieving SDG 4: Quality Education by offering accessible, high-quality training, and SDG 8: Decent Work and Economic Growth by equipping students with skills for the digital economy.



# EVENT BROCHURE



## DEPARTMENT OF INFORMATICS

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# HANDS-ON TRAINING ON PYTHON FOR DATA SCIENCE



27.09.2024 - 29.09.2024



New Lab 2 @ PMIST

## RESOURCE PERSON



### Prof. P. Antony Seba

Department of Artificial Intelligence & Data Science  
Kumaraguru College of Technology, Coimbatore- 641049.

#### Convener

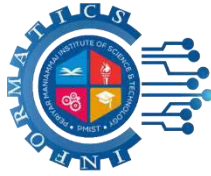
**Dr. A. MUTHAMIZH SELVAN**  
Head & Associate Professor, Department of  
Informatics

#### Coordinators

**Dr. V. RAJKUMAR**, Assistant Professor (SG)  
**Dr. M. MANIKANDAN**, Assistant Professor  
Department of Informatics

An event of **VISTA** (Association of Department of **Informatics**)

## EVENT SCHEDULE



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## Hands-on Training on “Python for Data Science”

27-09-2024 - 29-09-2024 (3-days)

09.30 am - 04.00 pm @ New Lab - 2 (PKC 512)

### PROGRAM SCHEDULE

#### Day 1: 27-09-2024 (Friday)

- 09.30 am - Welcome address : **Ms. M. BAVADARANI**  
II Year M.Sc. Data Science
- 09.40 am - Guest Introduction : **Dr. A. MUTHAMIZH SELVAN**  
Head & Associate Professor in Informatics
- 09.45 am - Felicitation Address : **Prof. Dr. V. RAMACHANDRAN**  
Vice chancellor, PMIST
- 10.10 am - Keynote Address : **Prof. P. ANTONY SEBA**  
Department of AI & Data Science  
Kumaraguru College of Engineering
- 11.30 am - Tea Break
- 11.45 am - Session I : **Python Features and its Libraries**
- 01.30 pm - Lunch Break
- 02.15 pm - Session II : **Python Functions and Code Optimization**

#### Day 2: 28-09-2024 (Saturday)

- 09.30 am - Session III : **Machine Learning Algorithms**
- 11.30 am - Tea Break
- 11.45 am - Session IV : **Python with Machine Learning**
- 01.30 pm - Lunch Break
- 02.15 pm - Session V : **Python with Machine Learning**

#### Day 3: 29-09-2024 (Sunday)

- 09.30 am - Session VI : **Data Transformation Techniques**
- 11.30 am - Tea Break
- 11.45 am - Session VII : **Data Visualization Techniques with Python**
- 01.45 pm - Vote of Thanks : **Ms. R. ELAKKIYA**

I Year M.Sc. Data Science  
**PARTICIPANTS ATTENDANCE**

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Date: 27-09-2024

**Hands on Training on Python for Data Science**

**Attendance [ II M.Sc. DS ]**

	Name of the Student	F/N	A/N
1	BAVADARANI M	M. B.	M. B.
2	SAHANA L	L. S.	L. S.
3	MANIMEGALAI T	T. M.	T. M.
4	VISWA A	A. V.	A. V.
5	RATHINAKALA K	K. R.	K. R.
6	SURUTHI S	S. S.	S. S.
7	CHARUBALA R	R. C.	R. C.
8	KAYALVIZHI R	R. K.	R. K.
9	SURYAGAYATRI M R	M. R.	M. R.
10	AJAY M	M. A.	M. A.
11	MOHAMED ABUTHAHIR M	M. A.	M. A.
12	DURGESA NANDHINI S	S. N.	S. N.
13	ABDULLA BATCHA A	A. B.	A. B.
14	VISHWA M	M. V.	M. V.
15	DINESH V	V. D.	V. D.
16	MAHISHA R	R. M.	R. M.
17	VIDHIYASRI S	S. V.	S. V.
18	MOHAMED SHAFIQ S	S. S.	S. S.
19	SARULATHA	AAA	AAA

*[Handwritten Signature]*

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Date: 28-09-2024

**Hands on Training on Python for Data Science****Attendance [ II M.Sc. DS ]**

	Name of the Student	F/N	A/N
1	BAVADARANI M	M.Bav	M.Bav
2	SAHANA L	L. Sahana	L. Sahana
3	MANIMEGALAI T	T.Mt	T.Mt
4	VISWA A	A.Visw	A.Visw
5	RATHINAKALA K	K.Rathina	K.Rathina
6	SURUTHI S	S. Suru	S. Suru
7	CHARUBALA R	R. Charu	R. Charu
8	KAYALVIZHI R	R. Kayal	R. Kayal
9	SURYAGAYATRI M R	M.R. Surya	M.R. Surya
10	AJAY M	M. Ajay	M. Ajay
11	MOHAMED ABUTHAHIR M	M. Mohamed Abuthahir	M. Mohamed Abuthahir
12	DURGESA NANDHINI S	S. Durgesa Namini	S. Durgesa Namini
13	ABDULLA BATCHA A	AAA	AAA
14	VISHWA M	M. Vishw	M. Vishw
15	DINESH V	AAA	AAA
16	MAHISHA R	R. Mahisha	R. Mahisha
17	VIDHIYASRI S	S. Vidhiyasri	S. Vidhiyasri
18	MOHAMED SHAFIQ S	AAA	AAA
19	SARULATHA	G. Sarulatha	G. Sarulatha

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#### Attendance [ II M.Sc. DS ]

	Name of the Student	F/N	A/N
1	BAVADARANI M	M. Ball	
2	SAHANA L	L. Sahana	
3	MANIMEGALAI T	T. M. J.	
4	VISWA A	A. Viswa	
5	RATHINAKALA K	K. Rathina	
6	SURUTHI S	S. Suruthi	
7	CHARUBALA R	R. Charu	
8	KAYALVIZHI R	R. Kayalvizhi	
9	SURYAGAYATRI M R	S. Suryagayatri	
10	AJAY M	A A A	
11	MOHAMED ABUTHAHIR M	A A A	
12	DURGESA NANDHINI S	S. Durgesa Nandhini	
13	ABDULLA BATCHA A	A. Abdulla Batcha	
14	VISHWA M	M. Vishwa	
15	DINESH V	V. Dinesh	
16	MAHISHA R	R. Mahisha	
17	VIDHIYASRI S	S. Vidhiyasri	
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	Name of the Student	F/N	A/N
1	S.JANANI	S. Janani 27/09/24	S. Janani 27/09/24
2	ELAKKIYA R	R. Elakkiya	R. Elakkiya
3	KAYALVIZHI.G	G. Kayalvizhi	G. Kayalvizhi
4	OVIYA S	S. Oviya	S. Oviya
5	YOGESWARAN.R	R. Yogeswaran	R. Yogeswaran
6	SUBHASHINI V	V. Subhashini	V. Subhashini
7	ATCHAYA.P	P. Atchaya	P. Atchaya
8	HARINI.S	S. Harini	S. Harini
9	SWATHI S	S. Swathi	S. Swathi
10	RENGARAJAN M	M. Rengarajan	M. Rengarajan
11	LOKESWARI L	L. Lokeswari	L. Lokeswari
12	YAZHINI N	N. Yazhini	N. Yazhini
13	ARUN	S. Arun	S. Arun
14	KARANESWERAN G	G. Karanesweran	G. Karanesweran
15	PRIYANKA.M	M. Priyanka	M. Priyanka
16	MUTHUKRISHNAN D *	D. Muthukrishnan	D. Muthukrishnan
17	SIVAKUMAR S *	S. Sivakumar	S. Sivakumar
18	SANJAY S *	S. Sanjay	S. Sanjay
19	KARTHIKEYAN R *	R. Karthikeyan	R. Karthikeyan

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Date: 28-09-2024

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	Name of the Student	F/N	A/N
1	S.JANANI	S. Janani 28/09/24	S. Janani 28/09/24
2	ELAKKIYA R	R. Elakkiya	R. Elakkiya
3	KAYALVIZHI.G	G. Kayalvizhi	G. Kayalvizhi
4	OVIYA S	S. Oviya	S. Oviya
5	YOGESWARAN.R	R. Yogeswaran	R. Yogeswaran
6	SUBHASHINI V	V. Subhashini	V. Subhashini
7	ATCHAYA.P	P. Atchaya	P. Atchaya
8	HARINI.S	S. Harini	S. Harini
9	SWATHI S	S. Swathi	S. Swathi
10	RENGARAJAN M	M. Rengarajan	M. Rengarajan
11	LOKESWARI L	L. Lokeswari	L. Lokeswari
12	YAZHINI N	N. Yazhini	N. Yazhini
13	ARUN	S. Arun	S. Arun
14	KARANESWERAN G	G. Karanesweran	G. Karanesweran
15	PRIYANKA.M	M. Priyanka	M. Priyanka
16	MUTHUKRISHNAN D *	D. Muthukrishnan	D. Muthukrishnan
17	SIVAKUMAR S *	S. Sivakumar	S. Sivakumar
18	SANJAY S *	S. Sanjay	S. Sanjay
19	KARTHIKEYAN R *	R. Karthikeyan	R. Karthikeyan

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#### Attendance [ I M.Sc. DS ]

	Name of the Student	F/N	A/N
1	S.JANANI	S. Janani 29/09/24	
2	ELAKKIYA R	R. Elakkiya	
3	KAYALVIZHI.G	G. Kayalvizhi	
4	OVIYA S	S. Oviya	
5	YOGESWARAN.R	R. Yogeswaran	
6	SUBHASHINI V	V. Subhashini	
7	ATCHAYA.P	P. Atchaya	
8	HARINI.S	S. Harini	
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12	YAZHINI N	N. Yazhini	
13	ARUN	Arun	
14	KARANESWERAN G	G. Karanesweran	
15	PRIYANKA.M	M. Priyanka	
16	MUTHUKRISHNAN D *	A A A	
17	SIVAKUMAR S *	S. Sivakumar	
18	SANJAY S *	A A A	
19	KARTHIKEYAN R *	A A A	

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**Attendance [ III B.Sc. DS ]**

	Name of the Student	F/N	A/N
1	MOHAMED SALMAN PARIES M	<i>Mohamed Salman Paries M</i>	<i>Mohamed Salman Paries M</i>
2	NANTHAKUMAR C	<i>Nanthakumar C</i>	<i>Nanthakumar C</i>
3	KISHORE M	<i>M. Kishore</i>	<i>M. Kishore</i>
4	M.SAKTHI	<i>M. Sakthi</i>	<i>M. Sakthi</i>
5	SWATHY.M	<i>Sathy M</i>	<i>Sathy M</i>
6	ARTHI A	<i>Arthi A</i>	<i>Arthi A</i>
7	KUZHALI S	<i>S. Kuzhali</i>	<i>S. Kuzhali</i>
8	FIRTHOWS B	<i>B. Firthows</i>	<i>B. Firthows</i>
9	ADIL AHAMED M	<i>M. Adil</i>	<i>M. Adil</i>
10	ELSIYA A	<i>Ely. A</i>	<i>Ely. A</i>
11	PRIYADHARSHINI M	<i>M. Priyadharsini</i>	<i>M. Priyadharsini</i>
12	BOJARAJAN S	<i>Bojarajan S</i>	<i>Bojarajan S</i>
13	KAVIN. V	<i>V. Kavin</i>	<i>V. Kavin</i>
14	Navaneethan K	<i>K. Navaneethan</i>	<i>K. Navaneethan</i>
15	FADHILA SHAHIN F	<i>F. Fadhila</i>	<i>F. Fadhila</i>
16	Mohamed Irfan S	<i>S. Mohamed Irfan</i>	<i>S. Mohamed Irfan</i>
17	SHAKTHIVEL S	<i>S. Shakthivel</i>	<i>S. Shakthivel</i>
18	MOHAMED ANAS M	<i>M. Mohamed Anas</i>	<i>M. Mohamed Anas</i>
19	JEEVA P	<i>P. Jeeva</i>	<i>P. Jeeva</i>
20	YAZHLENIYAN C.M	<i>C.M. Yazhleniyar</i>	<i>C.M. Yazhleniyar</i>
21	RAKESH G	<i>G. Rakesh</i>	<i>G. Rakesh</i>
22	MOHAMED SUHAIL S	<i>S. Mohamed Suhail</i>	<i>S. Mohamed Suhail</i>
23	U.B. KANIMOZHI	<i>U.B. Kanimozhi</i>	<i>U.B. Kanimozhi</i>
24	VIJAYA KUMAR S	<i>S. Vijaya Kumar</i>	<i>S. Vijaya Kumar</i>
25	N. GANESH KUMAR	<i>N. Ganesh Kumar</i>	<i>N. Ganesh Kumar</i>
26	Harini S	<i>S. Harini</i>	<i>S. Harini</i>

*S. Harini*

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Date: 28-09-2024

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**Attendance [ III B.Sc. DS ]**

	Name of the Student	F/N	A/N
1	MOHAMED SALMAN PARIES M	<i>[Signature]</i>	<i>[Signature]</i>
2	NANTHAKUMAR C	<i>Nanthakumar.c</i>	<i>Nanthakumar.c</i>
3	KISHORE M	<i>M. Kishore</i>	<i>M. Kishore</i>
4	M.SAKTHI	<i>M. Sakthi</i>	<i>M. Sakthi</i>
5	SWATHY.M	<i>Swathy.M</i>	<i>Swathy.M</i>
6	ARTHI A	<i>Arthi.A</i>	<i>Arthi.A</i>
7	KUZHALI S	<i>Kuzhali.S</i>	<i>Kuzhali.S</i>
8	FIRTHOWS B	<i>Firthows.B</i>	<i>Firthows.B</i>
9	ADIL AHAMED M	<i>M. Adil</i>	<i>M. Adil</i>
10	ELSIYA A	<i>Ely.A</i>	<i>Ely.A</i>
11	PRIYADHARSHINI M	<i>M. Priyadharshini</i>	<i>M. Priyadharshini</i>
12	BOJARAJAN S	<i>S. Bojarajan</i>	<i>S. Bojarajan</i>
13	KAVIN. V	<i>V. Kavin</i>	<i>V. Kavin</i>
14	Navaneethan K	<i>K. Navaneethan</i>	<i>K. Navaneethan</i>
15	FADHILA SHAHIN F	<i>F. Fadhila</i>	<i>F. Fadhila</i>
16	Mohamed Irfan S	<i>S. Irfan</i>	<i>S. Irfan</i>
17	SHAKTHIVEL S	<i>S. Shakthivel</i>	<i>S. Shakthivel</i>
18	MOHAMED ANAS M	<i>M. Anas</i>	<i>M. Anas</i>
19	JEEVA P	<i>P. Jeeva</i>	<i>P. Jeeva</i>
20	YAZHLENIYAN C.M	<i>C.M. Yazhleniyar</i>	<i>C.M. Yazhleniyar</i>
21	RAKESH G	<i>G. Rakesh</i>	<i>G. Rakesh</i>
22	MOHAMED SUHAIL S	<i>S. Suhail</i>	<i>S. Suhail</i>
23	U.B. KANIMOZHI	<i>U.B. Kanimozhi</i>	<i>U.B. Kanimozhi</i>
24	VIJAYA KUMAR S	<i>S. Vijaya</i>	<i>S. Vijaya</i>
25	N. GANESH KUMAR	<i>N. Ganesh</i>	<i>N. Ganesh</i>
26	Harini S	<i>S. Harini</i>	<i>S. Harini</i>

*[Handwritten Signature]*

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Date: 29-09-2024

**Hands on Training on Python for Data Science**

**Attendance [ III B.Sc. DS ]**

	Name of the Student	F/N	A/N
1	MOHAMED SALMAN PARIES M	<del>Clashed</del>	/
2	NANTHAKUMAR C	Nanthakumar.c	
3	KISHORE M	M. K.	
4	M.SAKTHI	Sakthi	
5	SWATHY.M	Swathy	
6	ARTHI A	Arthy	
7	KUZHALI S	S. Kuzhali	
8	FIRTHOWS B	<del>B. Firthows</del>	
9	ADIL AHAMED M	A A A	
10	ELSIYA A	Eliya A	
11	PRIYADHARSHINI M	A A A	
12	BOJARAJAN S	S. Bojarajan	
13	KAVIN. V	V. Kav	
14	Navaneethan K	K. Navaneethan	
15	FADHILA SHAHIN F	Fadhila	
16	Mohamed Irfan S	A A A	
17	SHAKTHIVEL S	S. Shakthivel	
18	MOHAMED ANAS M	A A A	
19	JEEVA P	P. Jeeva	
20	YAZHLENIYAN C.M	C.M. Yazhleniyar	
21	RAKESH G	G. Rakesh	
22	MOHAMED SUHAIL S	S. Mohamed Suhail	
23	U.B. KANIMOZHI	U.B. Kanimozhi	
24	VIJAYA KUMAR S	S. Vijaya Kumar	
25	N. GANESH KUMAR	N. Ganesh Kumar	
26	Harini S	S. Harini	

*[Handwritten Signature]*

# EVENT FOOTAGES



Day 1: 27-09-2024



Day 1: 27-09-2024



Day 2: 28-09-2024



Day 2: 28-09-2024

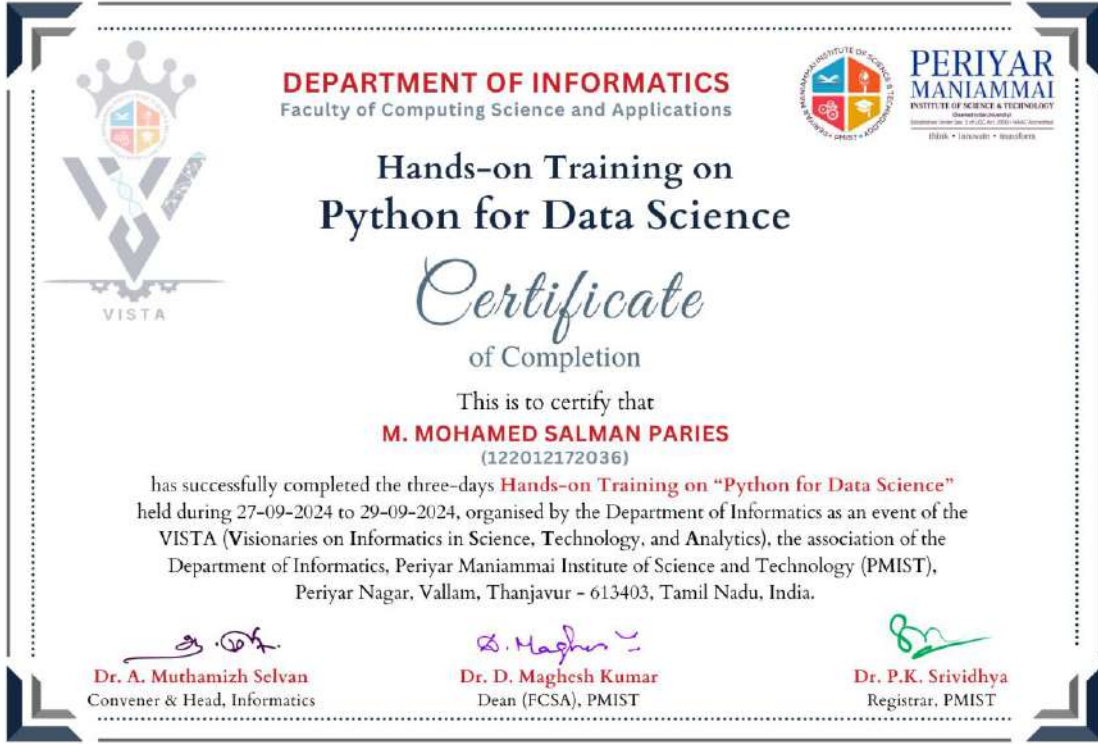



Day 3: 29-09-2024



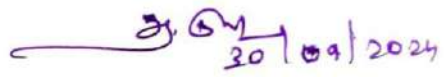
Day 3: 29-09-2024

# SAMPLE CERTIFICATE



  
Co-coordinator  
Dr. V. RAJKUMAR

  
Co-coordinator  
Dr. M. MANIKANDAN

  
Coordinator and Head  
Dr. A. MUTHAMIZH SELVAN  
30/09/2024

