



**AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING**  
**IAF-AVADI, CHENNAI - 55**  
**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**



**STUDENT CIRCULAR**

**Date: 01-08-2022**

The Department of Computer Science and Engineering plans to conduct a Value Added Course on “Data Analytics using python” by Mr S.Saravanan,”M/s Prolite Automation” , for the benefit of IV year B.E CSE Students. This Course is Scheduled from 10-08-2022 to 05-09-2022 at 4.00 P.M to 5.50 P.M for 33 Hours(4 Weeks). All students must attend all the classes without fail. Students who complete the course successfully will get certificates.

**Criteria for eligibility to get certificates :-**

- 75% attendance
- Above 50% marks in Quiz

**HOD/CSE  
HEAD**

**Computer Science & Engineering  
Aalim Muhammed Salegh  
College of Engineering**

**Copy to:-**

1. Principal.
2. IQAC
3. Resource Person, Mr.S.Saravanan.
4. CSE Faculty Members
5. IV year CSE whatsapp group
6. Hostel/Transport Supervisor
7. Campus Manager
8. Campus Engineer



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**AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING**

Approved by AICTE and Affiliated to Anna University Chennai



TNEA Counselling CODE: **1101**

**Department of Computer Science and Engineering**  
*organizes*

**VALUE ADDED COURSE**

**DATA ANALYTICS  
USING PYTHON  
FOR IV YEARS CSE  
STUDENTS**

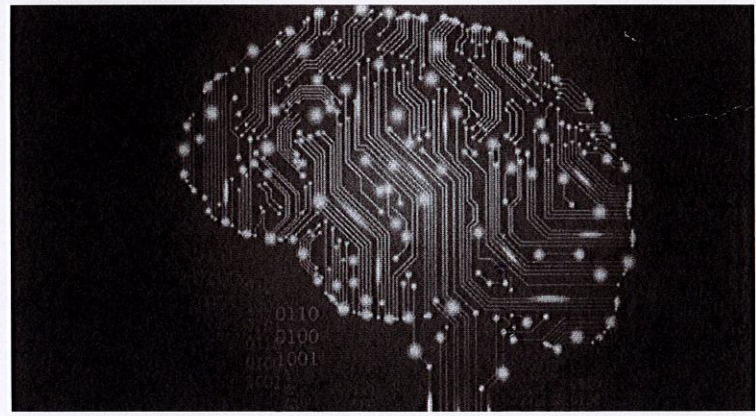
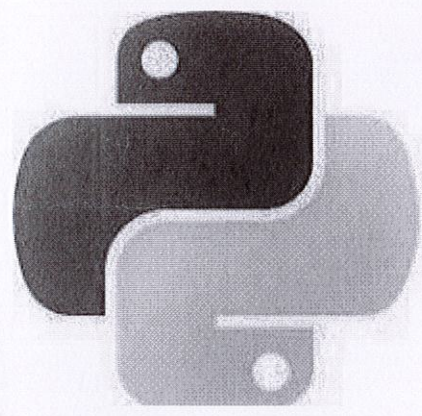
**From  
10/08/2022  
To  
05/09/2022**

**Resource Person**

**Er.S.Saravanan**

**M/s Prolite Automation**

**TIMING : 4.00 PM TO  
5.50 PM**



**Asst.Prof.G.Sulthana Begam**  
**HOD/CSE**

**Prof.Dr.S.Sathish**  
**Principal**



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**Alhaj S Segu Jamaludee**  
**Secretary & Correspondent**

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From

Date: 01-08-2022

The HOD,  
Department of Computer Science and Engineering,  
Aalim Muhammed Salegh College of Engineering,  
Muthapudupet, Avadi,  
Chennai- 600 055.

To

The Principal,  
Aalim Muhammed Salegh College of Engineering,  
Muthapudupet, Avadi,  
Chennai - 600 055.

Subject: Requisition for Approval of Value-Added Course on "Data Analytics using Python"- Reg.

Respected Sir,

We would like to arrange a Value-Added Course on the title "Data Analytics using Python" for final-year CSE students. The Course will be conducted by "Ms. S.Saravanan", M/s Prolite Automation. The Value-Added Course will be conducted from 10.08.2022 to 05.09.2022. So we kindly request you to provide approval for the same.

Thanking you

Permitted to organize the above  
Value added Course from 10/8/2022  
to 05/09/2022

Yours Faithfully

*[Signature]*  
HOD/CSE

*[Signature]*  
10/08/2022  
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CHENNAI 600 055

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IAF-AVADI, CHENNAI - 55**

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

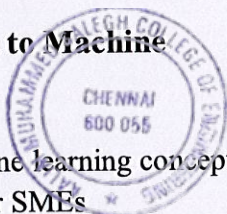



**Value Added Course Details**

**Course Name: Data Analytics using Python**

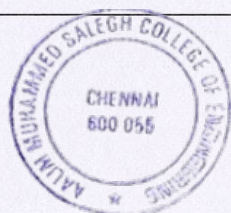
**Date : 10-08-2022 to 05-09-2022**


S.NO	Content	Total Hours
1	<p><b>Module 1: Introduction to Data Analytics</b></p> <ul style="list-style-type: none"> <li>• Overview of data analytics and its importance for SMEs</li> <li>• Basic concepts in data analysis</li> <li>• Introduction to Python for data analysis (basic syntax and data structures)</li> <li>• Loading and exploring data using Pandas'</li> <li>• Cleaning and preprocessing data</li> </ul>	9
2	<p><b>Module 2: Exploratory Data Analysis (EDA)</b></p> <ul style="list-style-type: none"> <li>• Technique's for understanding and summarizing data</li> <li>• Statistical analysis using Pandas and NumPy</li> <li>• Visualizing relationships in data using Seaborn</li> </ul>	8
3	<p><b>Module 3: Introduction to Machine Learning</b></p> <ul style="list-style-type: none"> <li>• Overview of machine learning concepts and applications for SMEs</li> <li>• Introduction to supervised and unsupervised learning</li> </ul>	8



  
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4	<p><b>Module 4: Application of Machine Learning</b></p> <ul style="list-style-type: none"> <li>• Implementing simple machine learning models (e.g., linear regression, decision trees) using scikit-learn</li> <li>• Model evaluation and interpretation</li> <li>• Introduction to model deployment and integration</li> <li>• Practical examples and case studies</li> </ul>	8
<b>Total Hours</b>		<b>33</b>



  
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**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**


**COURSE NAME: DATA ANALYTICS USING PYTHON**



**TIMING: 4.00 P.M TO 5.50 PM**

<b>S.No</b>	<b>DATE</b>	<b>COURSE CONTENT</b>
1	10-08-2022	Introduction to Data Analytics
2	11-08-2022	Basic concepts in data analysis
3	12-08-2022	Overview of data analytics and its importance for SMEs
4	16-08-2022	Introduction to Python for data analysis
5	17-08-2022	Data Manipulation with Pandas
6	18-08-2022	Loading and exploring data using Pandas
7	19-08-2022	Cleaning and preprocessing data
8	21-08-2022	Basic data visualization with Matplotlib
9	22-08-2022	Exploratory Data Analysis
10	23-08-2022	Techniques for understanding and summarizing data
11	24-08-2022	Statistical analysis using Pandas and Numpy
12	25-08-2022	Visualizing relationships in data using Seaborn
13	26-08-2022	Overview of machine learning concepts and applications for SMEs
14	29-08-2022	Introduction to supervised and unsupervised learning
15	30-08-2022	Practical examples and case studies
16	01-09-2022	Implementing simple machine learning models (e.g., linear regression, decision trees) using scikit-learn
17	02-09-2022	Model evaluation and interpretation
18	03-09-2022	Introduction to model deployment and integration
19	05-09-2022	QUIZ



  
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**VALUE-ADDED COURSE- SUMMARY REPORT**



**COURSE NAME: DATA ANALYTICS USING PYTHON**

**Date:** 10-08-2022 to 05-09-2022

**Time:** 4.00 P.M to 5.50 P.M

**Course Conducted Hours:** 33 Hrs (4 Weeks)

**Mode of Conduction:** Offline

**Speaker:** Mr S.Saravanan

**Students Attended:** 85

**Students Certified:** 85

**Total No of Modules:** 4

**Objective of the Course:**

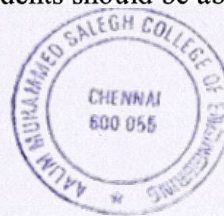
- Gain proficiency in Python for data analysis.
- Learn essential libraries such as Pandas, Matplotlib, and Seaborn.
- Understand basic statistical analysis and EDA techniques.
- Apply machine learning algorithms for predictive analysis.
- Develop skills in interpreting and communicating data insights effectively.

**Summary of the course :** A total of 85 Students were Participated and got introduced with Data Analytics using Python .The students will learn how to prepare data for analysis, perform statistical analysis, create meaningful data visualizations, predict future trends from data and more.

**Course Outcomes:**


Upon successful completion of this course, students should be able to:

- Import data sets
- Clean and prepare data for analysis
- Manipulate Pandas Data Frame
- Summarize data
- Build machine learning models
- Build data pipeline



  
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**Course Coordinator**

  
**HOD/CSE**  
**HEAD**  
**Computer Science & Engineering**  
**Aalim Muhammed Salegh**  
**College of Engineering**













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85	110119104701	MARYAM AYSHA S	Maryam		Maryam		Maryam	Mary	Mary	Maryam	Mary	Maryam















Cert No: 220001

Dt. 05-09-2022

This is to certify that (110119104001)ABDULLAH ToF Aalim Muhammed Salegh  
College of Engineering, Avadi – IAF has successfully completed “DATA ANALYTICS  
USING PYTHON” Course conducted from 10-08-2022 to 05-09-2022.

With Regards

*B. Saravanan*

Mr S.Saravanan



*[Signature]*  
PRINCIPAL  
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Cert No: 220002

Dt. 05-09-2022

This is to certify that (110119104002)ABDULLAH SYED ISMAILof Aalim Muhammed Salegh College of Engineering, Avadi – IAF has successfully completed “DATA ANALYTICS USING PYTHON” Course conducted from 10-08-2022 to 05-09-2022.

With Regards

*B. Saravanan*



Mr S.Saravanan

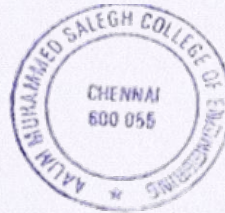


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Cert No: 220003

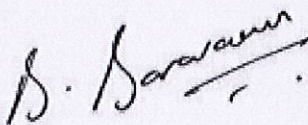
Dt. 05-09-2022

This is to certify that (110119104003)ABDUL MUIZZ Aof Aalim Muhammed Salegh  
College of Engineering, Avadi – IAF has successfully completed “**DATA ANALYTICS  
USING PYTHON**” Course conducted from **10-08-2022** to **05-09-2022**.



  
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With Regards

  
A circular black ink stamp with the text "PROLITE AUTOMATION" around the perimeter, "CHENNAI 600 061" in the center, and "NANGANALLUR" at the bottom.

Mr S.Saravanan

Cert No: 220004

Dt. 05-09-2022

This is to certify that (110119104004)ADNAN SHARIQ Pof Aalim Muhammed Salegh College of Engineering, Avadi – IAF has successfully completed “DATA ANALYTICS USING PYTHON” Course conducted from 10-08-2022 to 05-09-2022.

With Regards

*B. Saravanan*



Mr S.Saravanan



*[Signature]*  
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