



MGM's COLLEGE OF ENGINEERING, NANDED

Near Air-port, Hingoli Road, Nanded-431605.

Department of Computer Science and Engineering

[Co-curricular or Extra-curricular Activity]

Name of Activity: DATA ANALYTICS WORKSHOP	
Prepared by: Mr. Bisen R. G.	Date: 16th & 17th May 2024

Introduction:

On May 16th and 17th, 2024, the Department of Computer Science & Engineering, in collaboration with the Institute of Engineers Students' Chapter, successfully organized a two-day workshop on "Data Analytics with Python". The event was led by Mr. Aditya Thakare, a dedicated researcher, trainer, and open-source enthusiast, who shared his extensive knowledge and experience in data analytics.

The workshop commenced with an introduction to Python programming and fundamental data analytics concepts, where Mr. Thakare guided participants through essential Python skills and data science pre-processing techniques. These initial sessions laid a strong foundation for understanding the data analytics process, including data import/export, manipulation, and operations such as slicing, transformation, merging, Boolean filtering, scaling, sorting, and grouping.

In the subsequent sessions, Mr. Thakare delved into numerical functions and string operations, crucial for handling various data types in analytics. The workshop then moved into data visualization techniques using Matplotlib and Seaborn, where participants learned to create scatter plots, line plots, bar plots, box plots, pie charts, and histograms. These practical exercises provided hands-on experience in visualizing data, enhancing participants' ability to interpret and present data effectively.

The final segment of the workshop featured a sample analytics task, allowing participants to apply their newly acquired skills in a real-world scenario. This task reinforced the learning outcomes by offering hands-on practice in solving practical data analytics challenges.

The entire workshop was organized by IEI Students' Council under the guidance of respected Director, **Dr. Geeta S. Lathkar**, Faculty Advisor & HoD of CSE Department, **Dr. Archana Rajurkar** and IEI coordinator, **Mr. Rahul Singh G. Bisen**. With the efforts of IEI council members under the guidance of IEI coordinator, the event had turned into great success.



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Activity Details:

- Dates: 16th & 17th May, 2024
- Time: 10:30 AM – 5:30 PM
- Duration: 2 Days
- Location: Remote Centre Hall, Dept. Of CSE

Participants:

- Number of participants: 68
- Class: SY & TY CSE

Outcome of the Event

The "Data Analytics with Python" workshop provided participants with comprehensive knowledge and practical skills in data analytics. Through hands-on sessions and real-world applications, students gained proficiency in using Python for data manipulation, analysis, and visualization. The workshop empowered them to apply these skills in various data-driven projects, enhancing their ability to tackle complex problems and present data effectively.

Relevance with Program Outcomes

- 1. Engineering Knowledge (PO1):**
 - The workshop strengthened students' understanding of data analytics principles, allowing them to apply scientific and engineering knowledge to solve real-world problems using Python.
 - 2. Problem Analysis (PO2):**
 - Participants learned to analyze and break down complex data problems, enhancing their ability to formulate and solve engineering challenges.
 - 3. Design/Development of Solution (PO3):**
 - By engaging in practical tasks, students developed the skills to design and implement data-driven solutions, aligning with the program outcome of creating effective engineering solutions.
 - 4. Modern Tool Usage (PO5):**
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- The use of Python libraries such as Matplotlib and Seaborn provided hands-on experience with modern tools, fulfilling the program outcome of mastering contemporary engineering tools.

5. Lifelong Learning (PO12):

- The workshop encouraged continuous engagement with emerging data analytics techniques and tools, promoting a commitment to lifelong learning in the rapidly evolving field of data science.

Attachments:

- Any supporting materials (photos, videos, presentations, etc.)

MGM'S COLLEGE OF ENGINEERING, NANDED
Department of Computer Science and Engineering
IEI Students' Chapter

PRESENTS

An Industrial Training on
DATA ANALYTICS
With Python Programming

16th and 17th May 2024

Venue: Remote Center Hall, Dept. of CSE

Scan to Register

Registration Fees: ₹200/-

LIMITED Only 70 Seats are available. So hurry up students

Participation Certificate will be provided to participants

Mr. R. G. Bisen
IEI Co-ordinator

Dr. A. M. Rajurkar
Faculty Advisor
& Head, Dept. of CSE

Dr. G. S. Lathkar
Director, M.G.M's C.O.E.,
Nanded

For queries contact our co-ordinator:
Atharva Inamdar - 9604160954





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Feedback:

- Participant Feedback:
 - Positive Aspects:
 - "The workshop was a valuable learning experience, and the hands-on sessions really helped solidify the concepts."
 - "The instructor's expertise and interactive teaching style made the sessions engaging and informative."
 - Areas for Improvement:
 - "More time could have been allocated to the advanced topics to explore them in greater depth."
 - "Providing additional resources for post-workshop practice would have been beneficial."

MGM's College of Engineering, Nanded
Department of CSE
IEI Students' Branch
"Two Days workshop on Data Analytics using Python"
(16th - 17th May 2024)

FEEDBACK FORM

Name & Class of the Student: Saurabh Pawar

The workshop content was:
POOR [] SATISFACTORY [] GOOD [] VERY GOOD [✓] EXCELLENT []

How would you rate the usefulness of the workshop?
POOR [] SATISFACTORY [] GOOD [] VERY GOOD [] EXCELLENT [✓]

How would you rate the hands-on activity?
POOR [] SATISFACTORY [] GOOD [] VERY GOOD [✓] EXCELLENT []

Knowledge of Trainer:
POOR [] SATISFACTORY [] GOOD [] VERY GOOD [] EXCELLENT [✓]

Explanations of Topics & Queries asked by Participants:
POOR [] SATISFACTORY [] GOOD [] VERY GOOD [✓] EXCELLENT []

What is your Overall Assessment of the workshop?
POOR [] SATISFACTORY [] GOOD [] VERY GOOD [✓] EXCELLENT []

Views & Suggestions (Including further new technical training or initiatives you would like to learn):
I would focus on understanding python basics and its application in data analytics. I had actively participate in hands-on-exercises, finally, applying everything in about python in projects.

Additional Comments and Suggestions:
need such a workshops on various current technologies.

Mr. Bisen R. G.
Event Co-ordinator

Dr. A. M. Rajurkar
H.O.D
