



MAHARAJA AGRASEN INSTITUTE OF MANAGEMENT OF STUDIES

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Report

“Python for Data Science 3.0”

One-week Workshop cum FDP on Python for Data Science 3.0

Theme:	Python for Data Science 3.0
Organizing Department:	Department of Commerce, MAIMS, Delhi & PGDAV College, (Evening) University of Delhi
Student Beneficiary:	55
Convener:	1. Mr. Praveen Kumar Singh, Assistant Professor, MAIMS 2. Dr. Ajay Garg, Assistant Professor, PGDAV College (Eve.)
Date:	March 20 – 26, 2025
Time:	1:00 PM to 2:30 PM
Venue:	Hybrid Mode
Resource Person:	Mr. Praveen Kumar Singh, Assistant Professor, MAIMS

OBJECTIVES OF THE WORKSHOP

- Provide students with a solid foundation in data science, focusing on its practical applications, including data manipulation, visualization, and machine learning model development.
- Guide students through the use of key Python tools, variables, and operators for effective data analysis.
- Offer an engaging experience in data science, where students will learn how to analyze large datasets, generate insightful visualizations, and build machine learning models to extract meaningful patterns and predictions.

Report

Data only gains value when it is transformed into meaningful information. In the realm of Data Science, vast datasets—both structured and unstructured—are examined to uncover hidden patterns and extract actionable insights. Data Science enables organizations to effectively interpret large volumes of data from various sources, providing valuable insights that drive more



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informed, data-driven decision-making. Its applications are widespread, impacting industries such as marketing, healthcare, finance, banking, policy-making, and more.

To support student growth, the Department of Commerce at MAIMS and PGDAV College (Evening) presents a one-week workshop cum FDP titled "Python for Data Science 3.0." This workshop is designed to guide participants in exploring various Python tools, variables, and operators while also providing a deeper understanding of data science, machine learning, and its modern applications. The workshop will immerse participants in analyzing and interpreting large datasets, helping them become familiar with essential data analysis and visualization techniques. In order to receive certification for the workshop, participants are required to fulfill specific criteria, including attending at least 80% of the sessions and obtaining a minimum score of 60% on the assessment.

Out of the 55 students who enrolled in the workshop, 36 successfully completed the program. Such programs provide students with a competitive advantage in the job market, particularly within the business sector. As data science expertise continues to gain significance across various industries and job functions, proficiency in this area is rapidly becoming a crucial factor for career progression.

The success of this ambitious initiative is attributed to the unwavering support of Prof. (Dr.) R.K. Gupta, Principal of PGDAV College (Evening), Prof. (Dr.) Rajni Malhotra Dhingra, Director of MAIMS, and Prof. (Dr.) Manju Gupta, Head of the Department of Commerce at MAIMS. Their continuous encouragement played a pivotal role in the successful execution of the program. Additionally, Mr. Praveen Kumar Singh, Assistant Professor at MAIMS, served as the resource person for the workshop.

Learning Outcomes:

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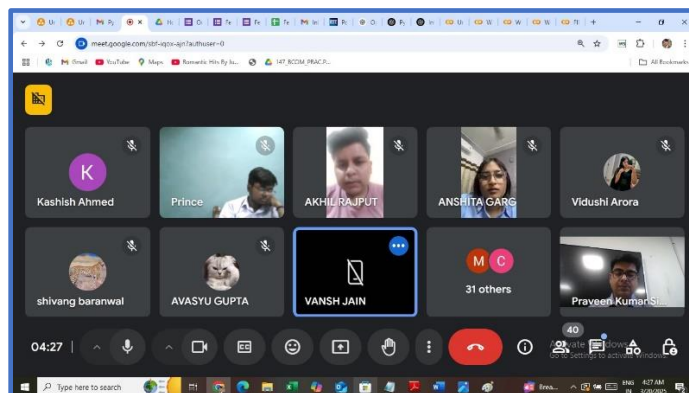
- Participants gained a comprehensive understanding of how data science is implemented in real-world applications.
- They acquired foundational knowledge of Python, along with practical skills in using Numpy and Pandas data frames.
- By the end of the workshop, participants will be equipped with the skills to preprocess, analyze, and visualize data using Python.



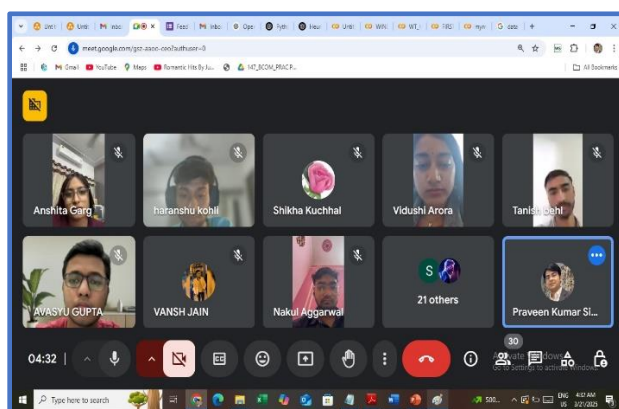
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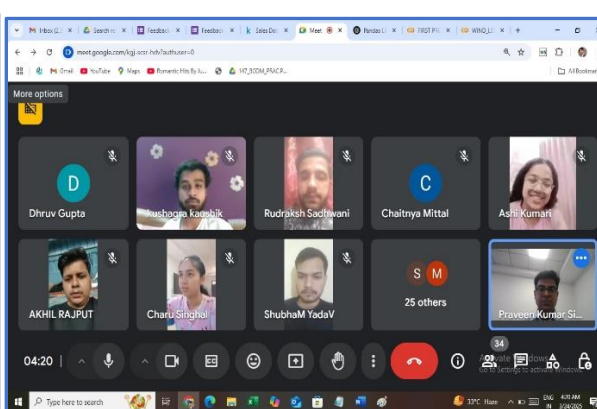
Glimpse:



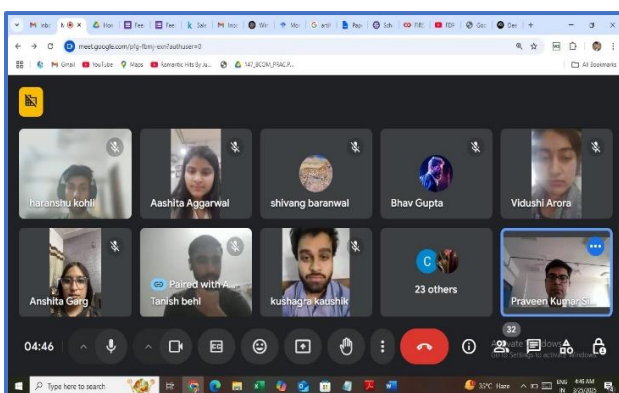
Day 1- 20/03/2025



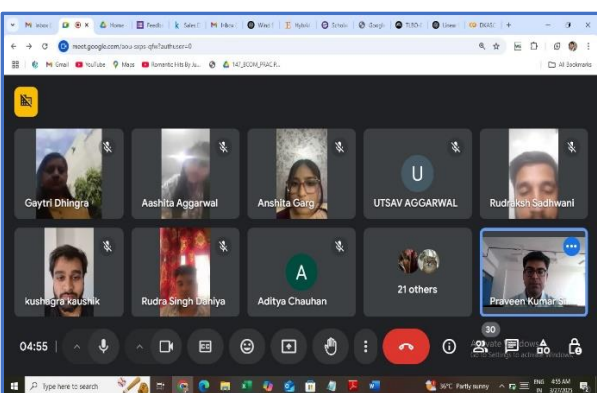
Day 2: 21/03/2025



Day 3: 24/03/2025



Day 4: 25/02/2024



Day 5: 26/04/2024