Report

"Python for Data Science 1.0"

10 Days Workshop on Python for Data Science 1.0

Theme:	Python for Data Science 1.0
Organizing Department:	Department of Commerce, MAIMS, Delhi & PGDAV College, (Evening) University of Delhi
Student Beneficiary:	61
Convener:	1. Mr. Praveen Kumar Singh, Assistant Professor, MAIMS
	2. Dr. Ajay Garg, Assistant Professor, PGDAV College (Eve.)
Date:	February 13 - 22, 2024
Time:	1:30 PM to 2:30 PM
Venue:	Hybrid Mode
Resource Person:	Mr. Praveen Kumar Singh, Assistant Professor, MAIMS

OBJECTIVES OF THE WORKSHOP

- To equip students with a comprehensive understanding of data science and its real-world usage.

- To assist students in investigating and utilizing different Python tools, variables, and operators.
- To immerse students in the wonders of data science for analyzing and comprehending vast amounts of data, while also gaining proficiency in data analysis and visualization techniques

Report

Data lacks significance until it undergoes transformation into valuable information. In the field of Data Science, extensive datasets comprising both structured and unstructured data are explored to unveil concealed patterns and derive actionable insights. Data Science empowers organizations to effectively interpret vast amounts of data from diverse origins, extracting valuable insights to inform more intelligent, data-centric decision-making. Its applications span across numerous industry sectors such as marketing, healthcare, finance, banking, policy-making, and beyond.

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With the objective of student advancement, the Department of Commerce, MAIMS & PGDAV College (Evening) introduces a 10 days workshop titled "Python for Data Science 1.0". This workshop is crafted to assist participants in delving into different Python tools, variables, and operators, while also gaining an understanding of data science and its contemporary applications. It aims to immerse participants in the process of analyzing and comprehending extensive datasets, fostering familiarity with data analysis and visualization techniques.

The certification criteria for the workshop stipulate that participants must fulfill specific requirements, such as attending at least 80% of the sessions and providing mandatory feedback alongside assessment.

The total number of students participated in the workshop were 61, and all completed the course successfully.
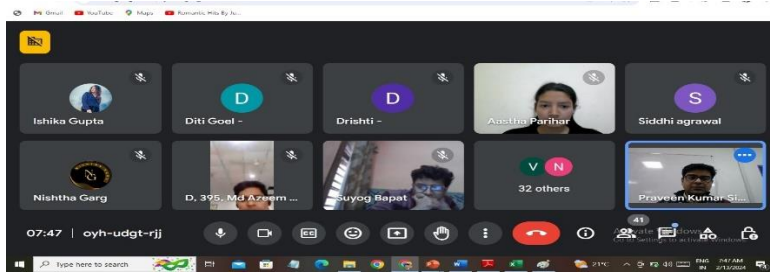
Courses like this provide students with a competitive advantage when seeking employment in the business sector. Proficiency in data science is becoming essential across all industries and job roles.

The credit for this ambitious initiative goes to Prof. (Dr.) R.K. Gupta, Principal, PGDAV College (Evening), Prof. (Dr.) Rajni Malhotra Dhingra, Director, MAIMS. and Prof. (Dr.) Manju Gupta (HOD, Commerce), MAIMS. Their constant support and encouragement helped in the successful accomplishment of this program.

Learning Outcomes:

- The participants obtained a deeper understanding of how data science is applied in practical real-world scenarios.
- Participants acquired knowledge about the fundamentals of Python, as well as Numpy and Pandas data frames.
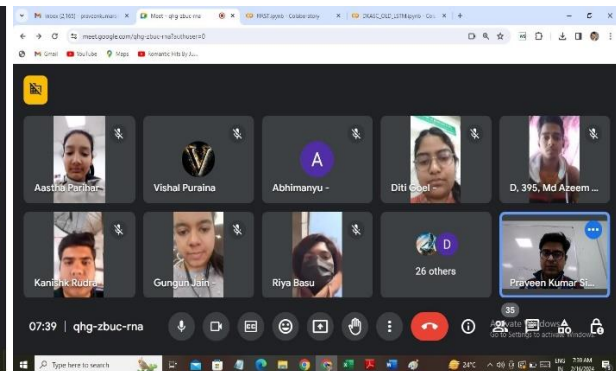- Participants will have the capability to preprocess, analyze, and visualize data utilizing Python.
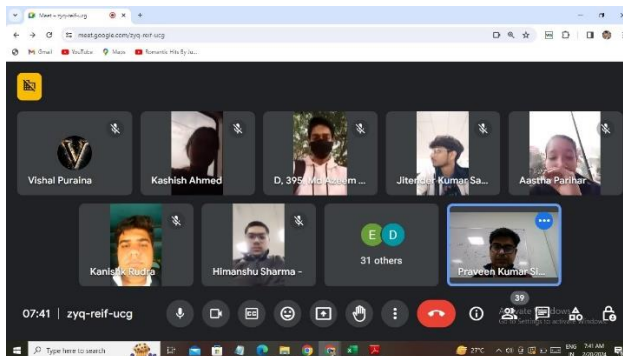
Glimpse:

What's in it for you?
• What is Data Science?
• Basics of Python.
• Python Libraries for Data Analysis
• Exploratory data analysis using Pandas
• Data Visualization

Day 1- 13/02/2024
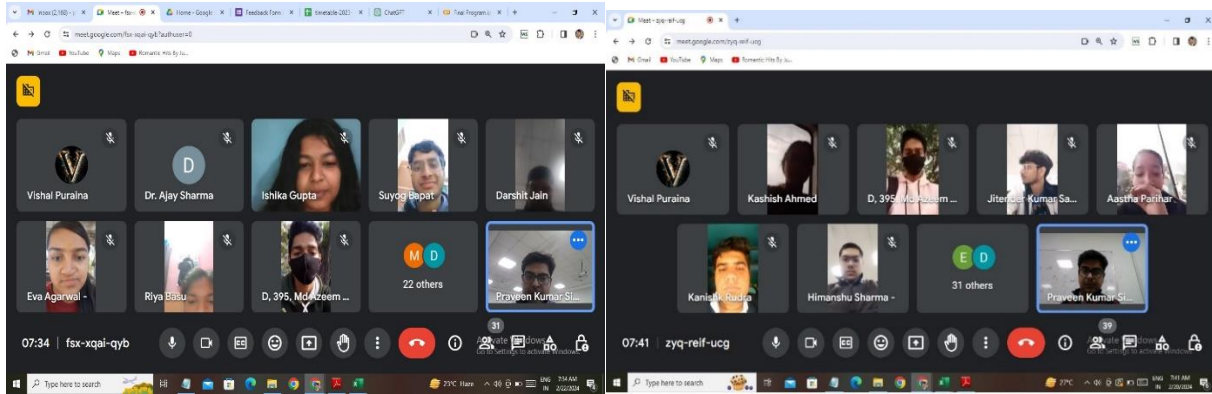

Day 2: 14/02/2024

Day 3: 15/02/2024

Day 4: 16/02/2024

Day 5: 20/04/2024

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Day 6: 21/02/2024   Day 7: 22/02/2024