



## **Centre for Artificial Intelligence**

*Peer-Learning Training Programme*  
*on*

## **“Introduction to Data Science”**

### **Speaker**

**Dr. Bhagat Singh Raghuwanshi &  
Dr. Abhishek Bhatt**  
**Assistant Professor**  
**Centre for Artificial Intelligence**  
**MITS Gwalior**

**Tentative Date: 23<sup>th</sup> April, 2025 to 29<sup>th</sup> April, 2025**

**Time: 11:00 AM onwards**

**Venue: Centre for Artificial Intelligence (HPC Lab)**

**Group Link:**

<https://chat.whatsapp.com/C4qecdAdd2XCqMIcURqxd>



**माधव प्रौद्योगिकी एवं विज्ञान संस्थान, ग्वालियर (म.प्र.), भारत**  
**MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR (M.P.), INDIA**  
**Deemed to be University**  
**(Declared under Distinct Category by Ministry of Education, Government of India)**  
**NAAC ACCREDITED WITH A++ GRADE**



**Event Schedule:**

Day	Time	Course Contents	Trainer Name	Mode of Delivery
Day 1 (23/04/25)	11:00 am to 12:00 noon	<b>SESSION 1:</b> What is data science, need for data science, benefits and uses, facets of data, data science process.	Dr. Abhishek Bhatt	Lecture cum discussion mode
	02:00 pm to 04:00 pm	<b>SESSION 2:</b> Introduction of basics python tool, Setting working Directory, Types of data: Numeric, Categorical, Graphical, High Dimensional Data, Classification of Digital Data: Structured, Semi-Structured and Unstructured.	Dr. Bhagat Singh Raghuwanshi	Hands on/ Experimentation based mode
Day 2 (24/04/2025)	11:00 AM to 1:00 PM	<b>SESSION 1:</b> Data Acquisition and Data wrangling: Accessing Database, CSV etc.. Data Cleaning.	Dr. Bhagat Singh Raghuwanshi & Dr. Abhishek Bhatt	Lecture cum discussion mode with hands-on
	02:00 pm to 03:45 pm	<b>SESSION 2:</b> Descriptive Statistics: Measures of Center and Spread, Estimation Distribution.	Dr. Abhishek Bhatt & Dr. Bhagat Singh Raghuwanshi	Hands on/ Experimentation based mode
Day 3 (25/04/25)	11:00 AM to 1:00 PM	<b>SESSION 1:</b> Data Transformation using Pandas and Sklearn, Data Visualization,	Dr. Abhishek Bhatt & Bhagat Singh Raghuwanshi	Lecture cum discussion mode with hands-on
	02:00 pm to 03:45 pm	<b>SESSION 2:</b>  Inferential Statistics: Sampling Distributions	Dr. Bhagat Singh Raghuwanshi Dr. Abhishek Bhatt	Hands on/ Experimentation based mode

\*Also a quiz will be conducted at the end of each day.



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Day 4 (28/04/2025)	11:00 AM to 1:00 PM	SESSION 1: Missing Value Analysis, Outlier Detection Analysis.	Dr. Abhishek Bhatt	Lecture cum discussion mode with hands-on
	02:00 pm to 03:45 pm	SESSION 2: Supervised Learning: Regression, classification.	Dr. Bhagat Singh Raghuwanshi	Hands on/ Experimentation based mode
Day 5 (29/04/25)	11:00 am to 12:00 noon	SESSION 1:, Unsupervised Learning:Clustering.	Bhagat Singh Raghuwanshi	Lecture cum discussion mode with hands-on
	12:15 PM to 01:15 PM	SESSION 2:  Final Assessment	Dr. Bhagat Singh Raghuwanshi Dr. Abhishek Bhatt	Hands on/ Experimentation based mode