

CIRCULAR



Ref. No. : AJU/SOR/2025/15

Date: 10/05/2025

CIRCULAR

It is notified to all the concerned persons that the Department of Research is conducting a 'Three-day workshop on Research Data Analysis' on online mode from 19th May to 21st May 2025. The workshop will be conducted at Google Meet Platform from 2:00 pm onwards. The details of the workshop are mentioned below:

- **Day 1:** Foundations of Data Analysis by Dr. B Ramachandra Reddy, Assistant Professor, CSE, NIT Jamshedpur
- **Day 2:** Statistical Analysis and Interpretation by Dr. Diwakar Tripathy, Assistant Professor, CSE, NIT Jamshedpur
- **Day 3:** Advanced Analysis and Application by Dr. Jitesh Pradhan, Assistant Professor, CSE, NIT Jamshedpur
- **Registration link:** <https://forms.gle/UNyTyqc4L6dJAEPs9>
- **Last Date of Registration:** 18-05-2025.
- **Event Convenor:** Prof. (Dr.) Sonia Riyat, Head, Dept. of Research, ARKA JAIN University
- **Event Coordinator:** Dr. Rupa Sarkar, Associate Professor, Department of Research, ARKA JAIN University

The registration is open for all the interested students, research scholars, faculty members, administrative officials. There is no registration fee.


HOD
Prof. (Dr.) Sonia Riyat
Department of Research
Head, Department of Research
ARKA JAIN University, Jharkhand

Copy to:

1. PS to the Vice-Chancellor
2. PS to the Director
3. Director Campus/DSW
4. Chief Finance & Accounts Officer
5. Controller of Examination
6. Dean/Head of the departments
7. Members of RAC/RDC/DRC
8. The Persons Concerned
9. Notice Board

3 Day Workshop on Research Data Analysis

Date of Event	06/05/2025
Name of the Event	3 Day Workshop on Research Data Analysis
Type of the Event	WORKSHOP
Conducted by	Dept. of Research
Resource Persons	Dr. B Ramachandra Reddy, Assistant Professor, CSE, NIT Jamshedpur Dr. Diwakar Tripathy, Assistant Professor, CSE, NIT Jamshedpur Dr. Jitesh Pradhan, Assistant Professor, CSE, NIT Jamshedpur
No. of Participants	35

OBJECTIVE:

The primary objective of a Research Data Analysis Workshop is to enhance participants' analytical skills and understanding of research methodologies. This is typically achieved through a blend of theoretical instruction and practical, hands-on sessions, focusing on both qualitative and quantitative data analysis techniques. The workshop aims to equip researchers with the necessary tools and knowledge to effectively analyze research data, interpret results, and report findings.

DETAILS:

A three day workshop on Research Data Analysis was organized by the Dept. Of Research from 19th -21st May, 2025. In the digital age, where information is generated at an unprecedented rate, businesses and individuals alike are faced with a monumental challenge: how to make sense of the vast sea of data that surrounds them. It is here the art and science of data analysis comes into play. The key objective of data analysis is not merely to sift through numbers and charts but to unlock valuable insights that can inform decision-making, drive innovation, and propel organizations forward.

Day 1: Foundations of Data Analysis (Introduction to Research Data Analysis, Data Cleaning and Pre-processing, Data Visualization Basics)--Dr. B Ramachandra Reddy, Assistant Professor, CSE, NIT Jamshedpur

On **Day 1** of the workshop, **Dr. B Ramachandra Reddy**, Assistant Professor in the Department of Computer Science and Engineering at NIT Jamshedpur, introduced participants to the **Foundations of Data Analysis**. He began by outlining the essential steps in **Research Data Analysis**, emphasizing the importance of framing clear research questions and selecting appropriate data and methods. Dr. Reddy then focused on **Data Cleaning and Pre-processing**, a critical stage where raw data is transformed into a

usable format. He explained techniques such as handling missing data, standardizing variables, and ensuring data quality to avoid analysis errors. The session also covered **Data Visualization Basics**, guiding participants on how to create effective visual representations of data. Dr. Reddy demonstrated how tools like bar charts, scatter plots, and histograms help in identifying trends, outliers, and relationships, making complex data easier to understand and communicate. By the end of the day, participants had a solid foundation in preparing, cleaning, and visualizing data, laying the groundwork for more advanced analytical techniques in the following sessions.

Day 2: Statistical Analysis and Interpretation (Descriptive and Inferential Statistics, Hypothesis Testing and Confidence Intervals, Regression Analysis and Modeling)
Dr. Diwakar Tripathy, Assistant Professor, CSE, NIT Jamshedpur

On **Day 2** of the workshop, **Dr. Diwakar Tripathy**, Assistant Professor in the Department of Computer Science and Engineering at NIT Jamshedpur, conducted a comprehensive session on **Statistical Analysis and Interpretation**. He walked participants through the foundational concepts of **Descriptive and Inferential Statistics**, emphasizing the importance of summarizing data effectively using measures like mean, median, and standard deviation, and how these basic tools set the stage for deeper statistical analysis. Dr. Tripathy also explored **Hypothesis Testing and Confidence Intervals**, demonstrating how to test assumptions about a population and interpret results with confidence. He explained the process of formulating null and alternative hypotheses, performing tests like t-tests and chi-square tests, and using confidence intervals to understand the reliability of estimates. The session also covered **Regression Analysis and Modeling**, where Dr. Tripathy illustrated how to model relationships between variables, whether simple linear regression or more complex multivariable models. By applying these statistical techniques, participants gained valuable insights into how to draw meaningful conclusions from data, providing a solid foundation for further advanced analysis in their research or professional work.

Day 3: Advanced Analysis and Application (Machine Learning and Predictive Analytics, Data Mining and Text Analysis, Applying Data Analysis to Real-World Research Questions) **Dr. Jitesh Pradhan, Assistant Professor, CSE, NIT Jamshedpur**

Dr. Jitesh Pradhan, Assistant Professor in the Department of Computer Science and Engineering at NIT Jamshedpur, delved into **Advanced Analysis and Application** in data science, covering crucial techniques like **Machine Learning and Predictive Analytics, Data Mining and Text Analysis**, and the practical application of data analysis to real-world research questions. Dr. Pradhan introduced the core concepts of machine learning, explaining how predictive models can be trained to identify patterns and make forecasts based on historical data. He demonstrated how these models can be used to solve complex, real-world problems, from predicting market trends to diagnosing medical conditions. The session also focused on **Data Mining**, a powerful method for discovering hidden patterns in large datasets, and **Text Analysis**, which is vital for extracting insights from unstructured data like social media, articles, and customer feedback. Using real-world case studies, Dr. Pradhan highlighted how these advanced techniques can be applied to practical research questions across various domains. The session provided

participants with a deeper understanding of how to leverage machine learning and data mining to derive meaningful insights, equipping them with the tools to apply these techniques to their own research challenges.

The session was backed by a question/answer round and followed by feedback from the participants which was very positive and the webinar ended with a vote of thank you from the event coordinator Dr Rupa Sarkar.

TAKEAWAY (OUTCOMES)

The core takeaway from the 3-day workshop was the **insightful hands-on experience** that not only enhanced participants' understanding of **Research Data Analysis** but also provided practical skills in applying various techniques. From **Day 1**, where foundational concepts such as data cleaning, pre-processing, and visualization were covered, to the more advanced topics explored on **Day 2** (statistical analysis, hypothesis testing, and regression modeling), and the cutting-edge methods introduced on **Day 3** (machine learning, data mining, and predictive analytics), the workshop offered a comprehensive journey through the essential stages of data analysis. The interactive sessions, led by experts like **Dr. B Ramachandra Reddy**, **Dr. Diwakar Tripathy**, and **Dr. Jitesh Pradhan**, allowed participants to not only learn but also implement these techniques in real-world scenarios. By the end of the workshop, attendees were equipped with the practical knowledge and tools to tackle complex research questions using data-driven approaches.

POSTER OF THE EVENT





DEPARTMENT OF RESEARCH *Organizes* WORKSHOP ON RESEARCH DATA ANALYSIS



Dr. B Ramachandra Reddy
Assistant Professor, CSE,
NIT Jamshedpur



Dr. Diwakar Tripathy,
Assistant Professor, CSE, NIT
Jamshedpur



Dr. Jitesh Pradhan,
Assistant Professor, CSE, NIT
Jamshedpur

Day 1: Foundations of Data Analysis (Introduction to Research Data Analysis, Data Cleaning and Preprocessing, Data Visualization Basics)
Dr. B Ramachandra Reddy, Assistant Professor, CSE, NIT Jamshedpur

Day 2: Statistical Analysis and Interpretation (Descriptive and Inferential Statistics, Hypothesis Testing and Confidence Intervals, Regression Analysis and Modeling)
Dr. Diwakar Tripathy, Assistant Professor, CSE, NIT Jamshedpur

Day 3: Advanced Analysis and Application (Machine Learning and Predictive Analytics, Data Mining and Text Analysis, Applying Data Analysis to Real-World Research Questions)
Dr. Jitesh Pradhan, Assistant Professor, CSE, NIT Jamshedpur



REGISTRATION
ARE OPEN
Free

THREE DAY WORKSHOP ON RESEARCH DATA ANALYSIS
May 19 - May 21, 2025, 2:00 PM - 03:00 PM
 Time zone: Asia/Kolkata
 Google Meet joining info
 Video call link: <https://meet.google.com/cug-rtct-vcn>
 Or dial: (US) +1 413-475-6056 PIN: 580 140 007#

CONVENOR:
Prof. Dr. Sonia Riyat
Head Dept. of Research

EVENT CO-ORDINATOR:
Dr. Rupa Sarkar
Associate Prof. Dept. of English

Registration link for participants
<https://forms.gle/W31CXa8TkGZJDR4A6>

PHOTOS OF THE EVENT



Fig.1-Guest Speaker Dr. B Ramachandra Reddy

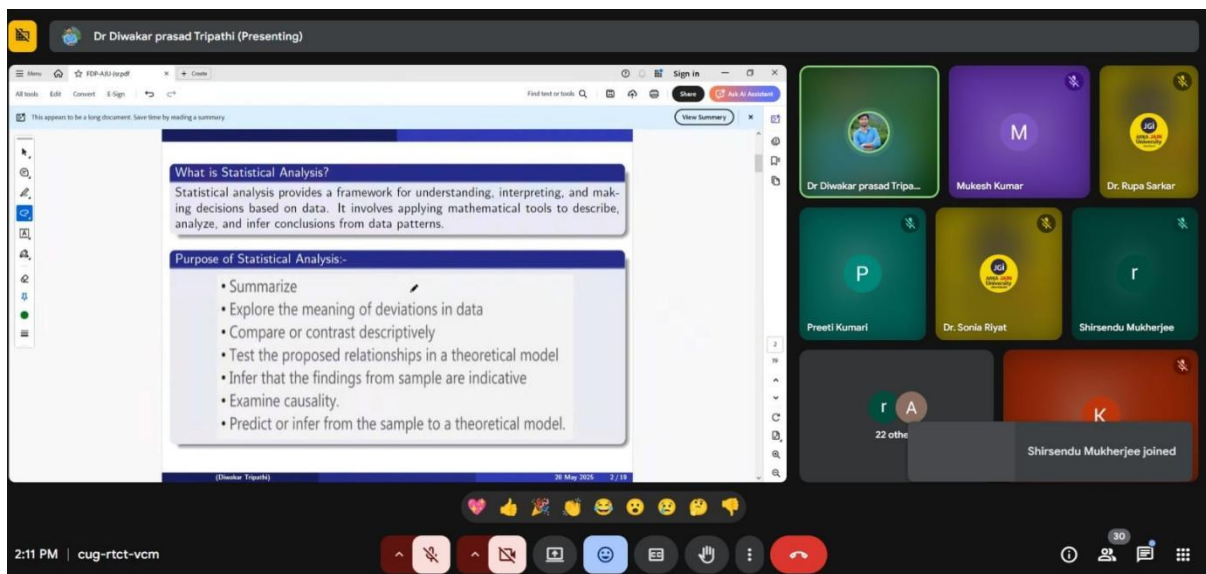


Fig.2- Presentation slide by the Dr. Diwakar Tripathy

Data Mining And Text Analysis

Stylometry: an early attempt at text analysis

- Stylometry is a science used in case of disputed authorship of a text: it aims at analysis writing patterns.
- Thomas C. Mendenhall pioneered stylometry in 1887 by proposing to analyze and compare the "word spectrum" of texts.
- He was a physicist and a meteorologist at The Ohio State University from 1873 and later became President of the Worcester Polytechnic Institute.

SCIENCE.
FRIDAY, MARCH 11, 1887.
THE CHARACTERISTIC CURVES OF COM-
POSITION.

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2:52 PM | cug-rtct-vcn

Fig.3- Presentation on Data Mining & Text Analysis

Advanced Analysis and Application

Presented by
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Fig.4- Dr. Jitesh Pradhan, Day 3 Session Speaker

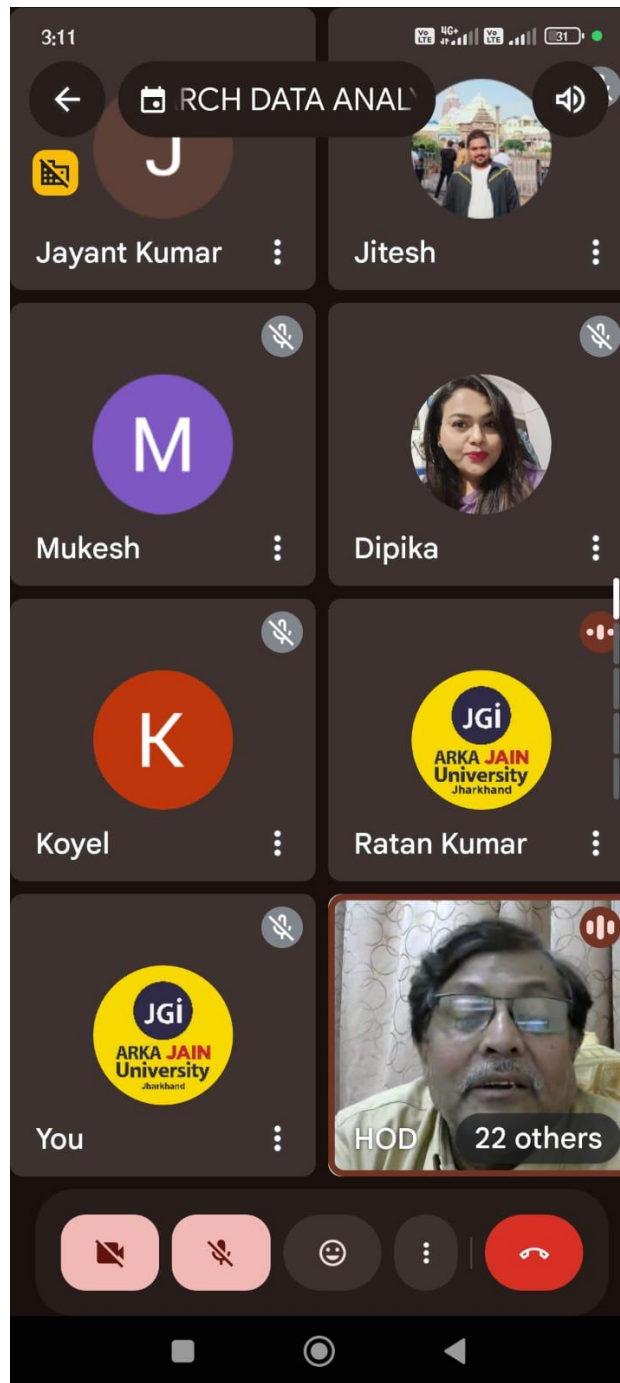


Fig.5- A special note by the Head- Dept of CSE, NIT Jamshedpur

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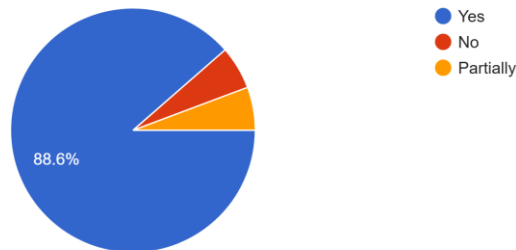
Mrs. Annanya
Gangopadhyay

Centurion University of Technology and
Management, Odisha, India

FEEDBACK FOR THE WEBINAR

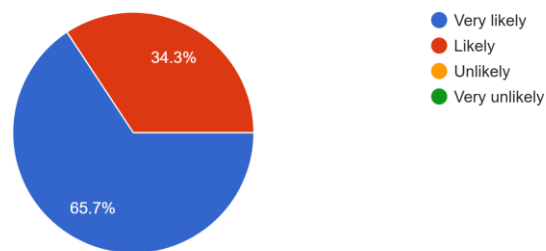
2. WAS THE WORKSHOP CONTENT RELEVANT TO YOUR RESEARCH OR ACADEMIC WORK?

35 responses



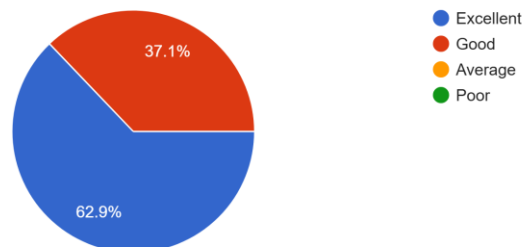
3. HOW LIKELY ARE YOU TO RECOMMEND THIS WORKSHOP TO A COLLEAGUE OR PEER?

35 responses



4. HOW WOULD YOU RATE THE KNOWLEDGE AND EXPERTISE OF THE PRESENTER?

35 responses





ARKA JAIN
University
Jharkhand



CERTIFICATE Of Participation

This Certificate is Presented to

Prof. Dharmishtha V.OZA

For participating in workshop on **Research Data Analysis**
Organized by **Dept of Research**, Arka Jain University on
19- 21 May,2025

Rupa Sarkar
Event Coordinator
Dr. Rupa Sarkar
Associate Professor
Dept of English

Savit
Convenor
Prof Dr. Sonia Riyat
Head. Dept of Research



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Dr. H Akther Banu

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Parna Dhara

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Shikha Christy Horo

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19- 21 May,2025

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Reetika Parjapati

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CERTIFICATE Of Participation

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MD Nasim Ansari

For participating in workshop on **Research Data Analysis**
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19- 21 May,2025

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