



COIMBATORE INSTITUTE OF TECHNOLOGY
**DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND
DATA SCIENCE**



will be organizing a one day workshop on
**“Learning R Programming for Data
Science Enthusiasts”**.

Students who are interested kindly register in the
below link on or before 4-Oct - 2023

[CLICK HERE FOR REGISTRATION](#)

Certificates will be issued for all Participants.
Limited to first 50 registrations. **Fee :Rs.150**

DATE: 6 OCT 2023
Timings : 9:30 AM - 4:30 PM

REPORT OF ONE DAY WORKSHOP ON “LEARNING R PROGRAMMING FOR DATA SCIENCE ENTHUSIASTS”

Title of Activity	Learning R Programming for Data Science Enthusiasts		
Date:	06/10/2023	Venue:	CIT, Coimbatore



Photo of Inaugural Session



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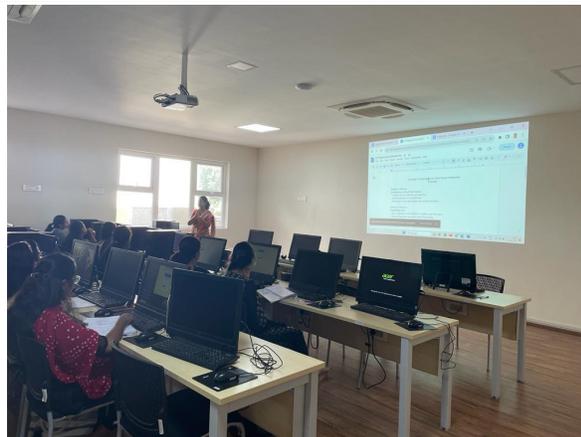


Photo of Inaugural Session

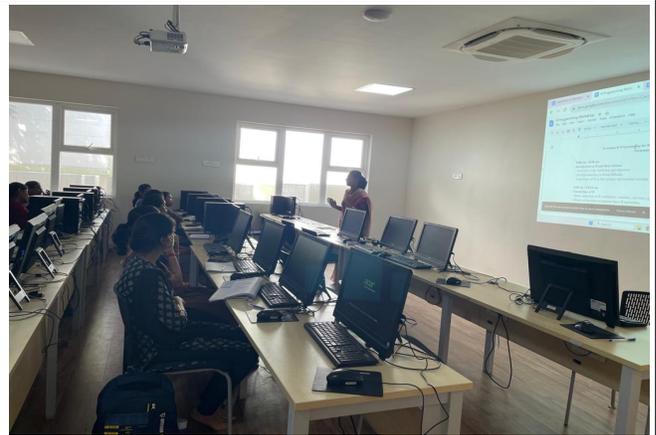


Photo of Session - 1

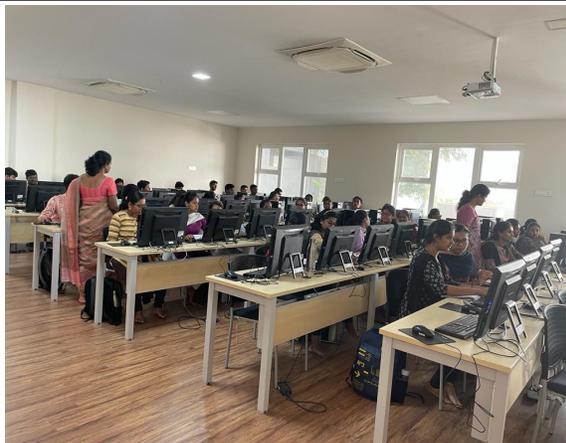


Photo of Session - 2

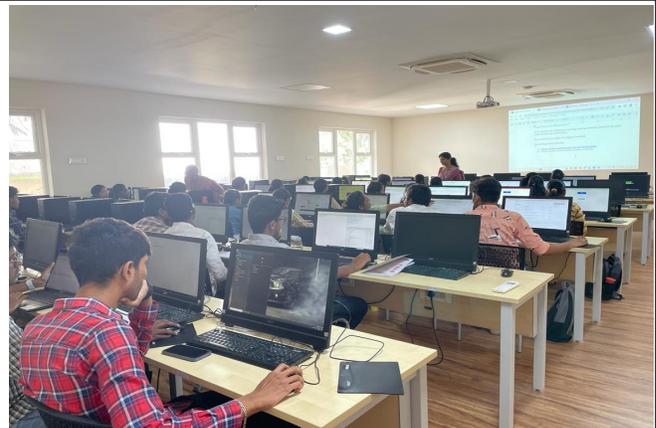


Photo of Session - 3

Report of One Day Workshop

CLAP division of Career Guidance cell - Coimbatore Institute of Technology, Coimbatore in association with Department of Artificial Intelligence and Data Science organized a One Day Workshop on “Learning R Programming for Data Science Enthusiasts” on 06.10.2023 (Friday) from 9.30 AM to 4:30 PM at TLC Computer Lab, *Coimbatore Institute of Technology, Coimbatore*.

The Head of the Department welcomed the students for the One Day Workshop and spoke about the importance of Data Science in today’s world and the role of R Programming. Ms. Janani, Assistant Professor, Dept. of Artificial Intelligence and Data Science , introduced to the students about the basics of Data Science, the steps involved in Data Analytics and Types of Data. Dr. M. Karthiga gave an insight into the real world applications of Data Science and the perspective from a Business Analyst and the hands-on session began. The following was the flow of the workshop.

Learning R Programming for Data Science Enthusiasts Schedule

9:00 am - 9:30 am Ms. N. Janani and Dr. M. Karthiga

Introduction to R and Data Science

- Overview of the workshop and objectives.
- Brief introduction to R and RStudio.
- Importance of R in data science and machine learning.

9:30 am - 10:15 am

Foundations of R Ms. N. Janani

- Basic operations in R: arithmetic, variables, and data types.
- Hands-on exercises to practice basic R operations.

10:15 am - 10:30 am

Refreshment Break

10:30 am - 11:15 am

Data Import and Management Ms. N. Janani

- Importing data into R from various formats.
- Exploring data using functions like `head()`, `tail()`, `summary()`, and `str()`.
- Hands-on exercises for data import and exploration.

11:15 am - 12:15 pm

Data Manipulation with dplyr Dr. M. Karthiga

- Introduction to the dplyr package.
- Filtering, sorting, and selecting data.
- Grouping and aggregating data.
- Creating new variables.
- Hands-on exercises with dplyr.

12:15 pm - 1:15 pm

Data Visualization with ggplot2 Dr. M. Karthiga

- Introduction to the ggplot2 package.
- Creating scatter plots, bar charts, and histograms.
- Customizing plot aesthetics.
- Hands-on exercises for data visualization.

1:15 pm - 2:15 pm

Lunch Break

2:15 pm - 3:15 pm - Ms. N. Janani

Exploratory Data Analysis

- Summary statistics using summary and describe
- Data exploration techniques.
- Visualization for data exploration.
- Basic hypothesis testing (t-tests).
- Hands-on exercises for data exploration and analysis.

3:15 pm - 3:30 pm

Refreshment Break

3:30 pm - 4:30 pm - Dr. M. Prabhavathy

Machine Learning with R

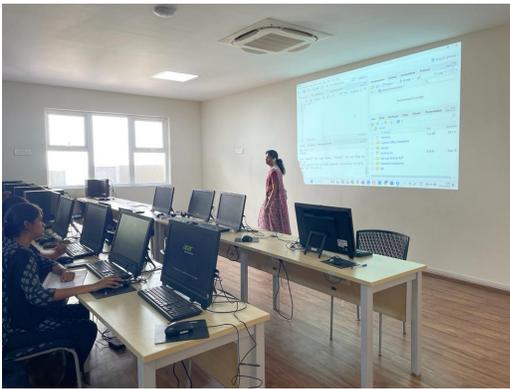
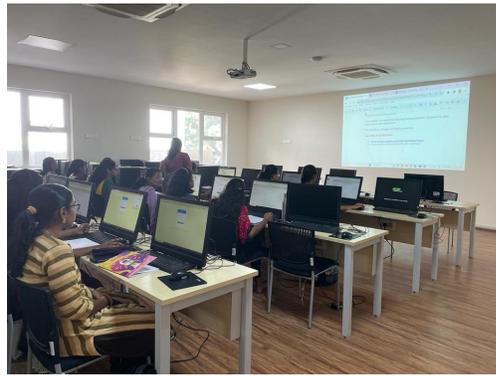
- Introduction to machine learning.
- Preprocessing data for machine learning.
- Supervised learning: classification and regression.
- Model evaluation and selection.
- Hands-on machine learning exercises with R using caret or other relevant packages.

4:30 pm - 4:45 pm Ms. N . Janani and Dr. M. Karthiga

Conclusion and Next Steps

- Summarize key takeaways from the workshop.
- Suggest next steps for participants to continue their learning journey in R, data science, and machine learning.
- Provide additional resources and project ideas.

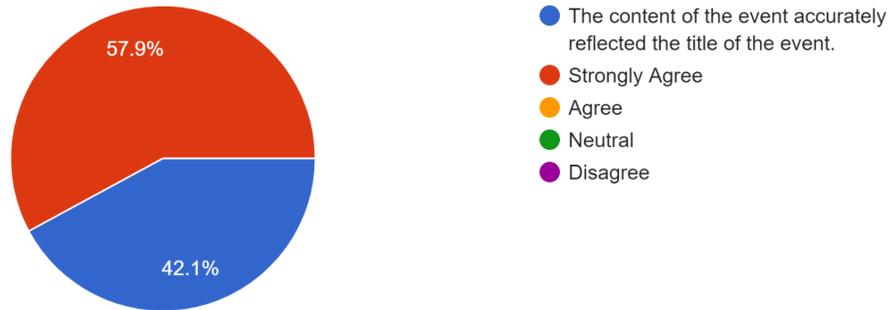
Photographs of The Event



FEEDBACK

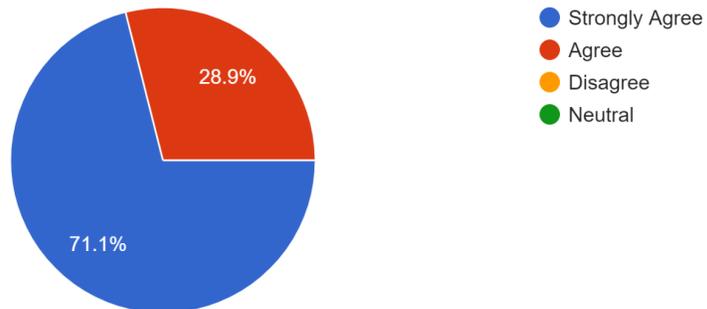
The content of the event accurately reflected the title of the event.

38 responses



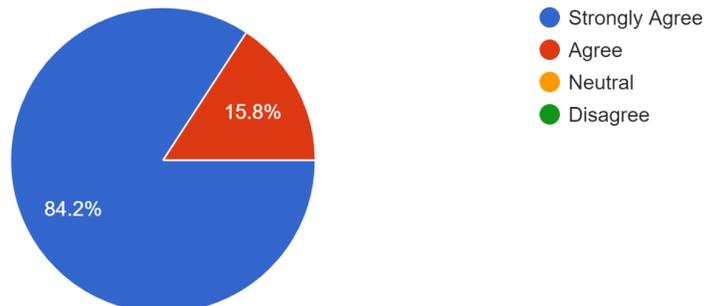
I clearly understood the subject matter

38 responses



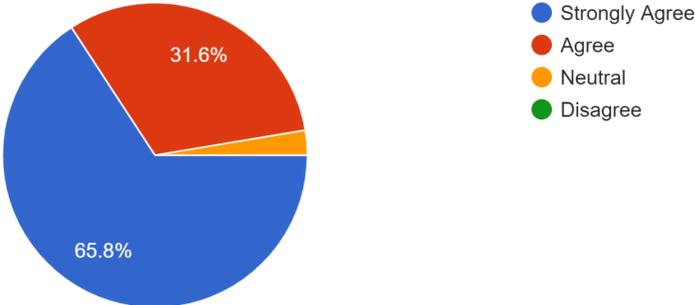
The Resource persons delivered content of the Sessions clearly.

38 responses



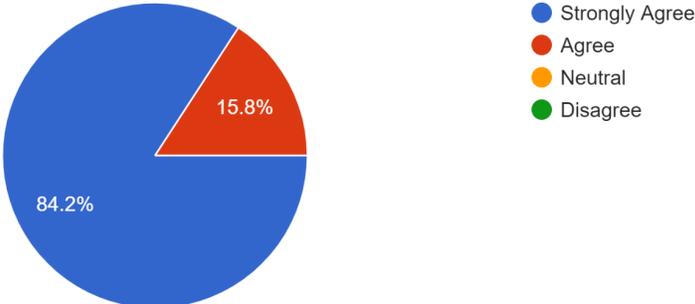
I feel I am confident in applying the inputs which I received in this event for future

38 responses



I feel such type of events are to be conducted in future also

38 responses





Coimbatore Institute of Technology

CLAP Division Of Career Guidance and
counselling cell

This Certificate is presented to

*For succesful completion of one day workshop
"Learning R programming for Data Science Enthusiasts"
conducted on 06.10.2023 at Coimbatore Institute of Technology*

DR. VALLIAPPAN RAMAN
CGC-CLAP

DR.A.RAJESWARI
PRINCIPAL,CIT

MRS. DIVYA MOHANA RAJIV
CO-ORDINATOR, CIT INSTITUTIONS