



KINGS
COLLEGE OF ENGINEERING
AUTONOMOUS

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Affiliated to Anna University, Chennai
Recognized under 2(f) & 12B, UGC
NAAC Accredited Institution

ACADEMIC YEAR 2024-2025(ODD SEMESTER)

ONE DAY WORKSHOP

On

"R for Data Science" 20.09.2024

REPORT

Department of Computer Science & Engineering of Kings College of Engineering organized One day -Workshop on "R for Data Science" on 20.09.2024.

Objective:

The main objective of the "R for Data Science" workshop was to provide participants with practical knowledge and skills in R programming, enabling them to apply R for data manipulation, visualization, and analysis, particularly in the context of data science applications.

ResourcePerson:

Dr.G.Kumaravelan, Asso Prof, Department of CS, Pondicherry University, Puducherry.

Convener

Dr.S.M.Uma,HOD/CSE, Kings College of Engineering

Coordinators:

Mr.S.Rajarajan - AP/ CSE, Kings College of Engineering
Mr.M.Arun, AP/CSE, Kings College of Engineering

Programme Type: Workshop

Overview:

On September 20, 2024, a national-level workshop titled "R for Data Science" was held at CSE Lab 1. The primary goal of the workshop was to provide practical knowledge of R programming to students from various engineering disciplines, including Computer Science, Mechanical, Civil, and Artificial Intelligence & Data Science. The session was led by Dr. G. Kumeravelan, an associate professor from Pondicherry University.

A total of 65 participants attended the workshop, consisting of 31 external participants and 34 internal participants, all of whom were second-year students. The day began with registration, followed by an inaugural session that included a warm welcome address by Dr. S. M. Uma. She set a positive tone for the event and highlighted its significance. Mr. S. Rajarajan then introduced the chief guest, Dr. Kumeravelan, emphasizing his expertise and contributions to the field of data science.

The workshop covered various topics, starting with an introduction to R programming. Dr. Kumeravelan explained the importance of R in data science and guided participants through the installation of R and RStudio, along with basic syntax and operations. The next session focused on R basics, where attendees learned about data types and structures and practiced data manipulation using packages like dplyr and tidyr. They also created visualizations using ggplot2, which helped reinforce their understanding.

After a short break, the workshop progressed to more advanced topics, including statistical modeling, time series analysis, and machine learning applications in R. Dr. Kumeravelan provided practical examples to make these topics relatable and easier to grasp.

After lunch, participants engaged in a hands-on session on sentiment analysis. They learned how to preprocess text data and conduct sentiment analysis using the tidytext package, allowing them to apply their skills to real-world data scenarios. This practical experience made the learning process both engaging and relevant.

The workshop concluded with a Q&A session, where participants had the opportunity to ask questions and discuss their thoughts. Dr. Kumeravelan encouraged everyone to continue exploring R and provided additional resources for further learning. The valedictory address was given by Mr. M. Arun, who expressed gratitude to Dr. Kumeravelan and the organizing team, and certificates of participation were distributed to all attendees.

Overall, the "R for Data Science" workshop was a great success, equipping participants with valuable skills in R programming. Feedback from attendees highlighted the practical nature of the sessions and the effectiveness of Dr. Kumeravelan's teaching style. Participants gained hands-on knowledge that will aid them in their future studies and careers, marking an important step in enhancing data science education among engineering students.

Event Photographs:



Guest of honour

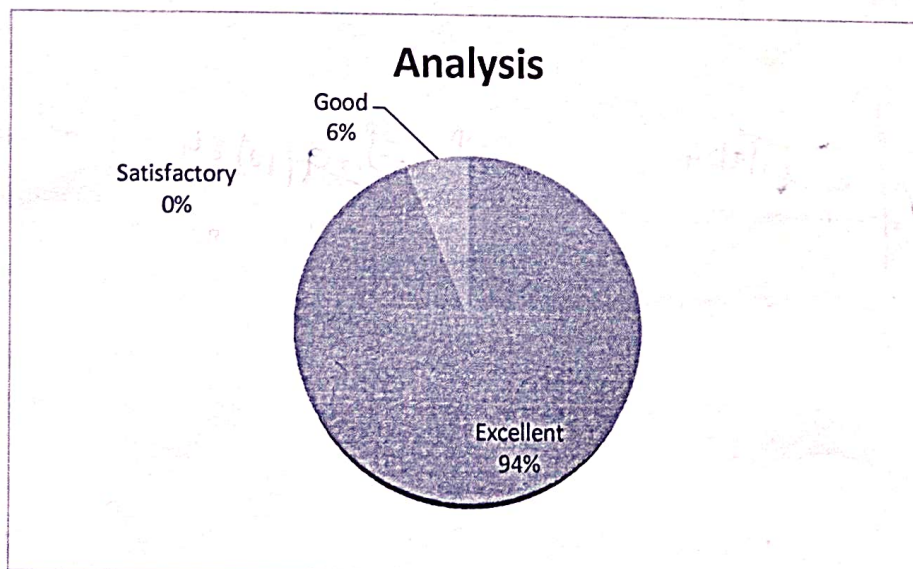


Certificate Distribution



Discussion of Resource Person with participants

Feedback from the Participants:



Banner:

KINGS
COLLEGE OF ENGINEERING
AUTONOMOUS
Parakkal, Gandhinagar Taluk, Pudukkottai Dist. 622 303
Tamil Nadu, www.kingsce.ac.in

Department of Computer Science and Engineering

Date: 20-9-2024
Day: Friday

Organizing
**One day Workshop on
R for Data Science**

Welcomes you all...!!!

Sample Certificate:

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Department of Computer Science and Engineering


CERTIFICATE OF PARTICIPATION

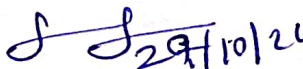
This is to certify that _____ of _____ has participated in the one day National Level Workshop on "R for Data Science" organized by Department of Computer Science and Engineering in association with Code Club and Multimedia Club, Kings College of Engineering, Pudukkottai on 20th September 2024.


M.S. Rajaraj, AP/ISE
NRM Anand, AP/ISE
Coordinator

G.S.M. Uma, Ph.D
HOD/CSE

Dr. Arjuna S. Jayaschi, Ph.D
Principal


27/9/24
Workshop Coordinator


29/10/24
HOD/CSE


29/10/24
Principal