

## Two Days Workshop On "Data Science Using R"

### Overview

A 2-day workshop on "Data Science using R" is being held by Department of LS & E, during October 11 and 12, 2019 at Adichunchanagiri Institute of Technology, Chikkamagaluru. Aim of this workshop is to provide basic training in understanding the concepts in data science and statistical analysis using R programming. The R programming language is one of the most widely used programming languages among the data scientists, researchers and clinicians. Being open-source software it is freely available and allows integration with other applications. At the end of the workshop, participants should be able to: i) Understand statistical analysis using R programming; ii) Explore how to analyze research data using statistical methods and R programming; and iii) Explore how to represent data using basic graphs in R. Didactic lectures will be delivered by experienced resource person. The course will be a hands-on program where participants will play with the dataset provided to them through exercises and analyze it using R software. It's a great place for your 'elevator pitch.'

### Course Contents

#### Day 1

1. Introduction to Data Science, The data science process, setting expectations
2. Introduction to R, R installation, Navigating the Software, Input and Output, Data Structures
2. Data Import and Export, Data Exploration and Visualization
4. Decision Trees and Random Forest

#### Day 2

1. Clustering, Outlier Detection
2. Association Rules
3. Case study 1 Sentimental Analysis
4. Case study 2 Analysis and Forecasting of House Price Indices

### Resource Person

Mr. Santhosh Kumar D K

Assistant Professor, Dept. of C S&E, Canara College of Engineering, Mangaluru

Eligibility: Only for students of ISE, AIT

Registration Fee: No Registration fee

Registration Link: [https://docs.google.com/forms/d/e/1FAIpQLSdlr\\_LXG5oHwvT9CZom1YoCVi\\_8wX3f\\_-dDvH7ZRElh8DVOq/viewform?vc=0&cc=0&w=1](https://docs.google.com/forms/d/e/1FAIpQLSdlr_LXG5oHwvT9CZom1YoCVi_8wX3f_-dDvH7ZRElh8DVOq/viewform?vc=0&cc=0&w=1)

#### Faculty Coordinator

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#### Student Coordinator

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Venue: Department of H. R.D, AIT



**ADICHUNCHANAGIRI INSTITUTE OF TECHNOLOGY**  
**INTERNAL QUALITY ASSURANCE CELL (IQAC)**



11/10/2019 to 12/10/2019

**Student Enrollment List**

**Data Science Using R**

Workshop on Data Science using R Registration form

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Signature of IQAC

  
Signature of Coordinator



**Figure 1. Principal, C T Jayadeva addressing about the workshop**

|| Jai Sri Gurudev ||  
Sri Adichunchanagiri Shikshana Trust ®



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11/10/2019 to 12/10/2019

## Department of Information Science & Engineering

### Two Day Workshop on “Data Science Using R”

#### Attendance

SI No	Student Name	11/10/2019		11/10/2019	
		Session 1	Session 2	Session 3	Session 4
1	SINCHANA S	P	P	P	P
2	AKHILA U	P	P	P	P
3	AKSHATA ERAPPA NAIK	P	P	P	P
4	BHOOMIKA B G	P	P	P	P
5	CHANDANA M B	P	P	P	P
6	CHINMAYI B A	P	P	P	P
7	DISHA B	P	P	P	P
8	DIVYASHREE K L	P	P	P	P
9	KRUTHIKA S GOWDA	P	P	P	P
10	MANASA L T	P	P	P	P
11	MANJUNATH A K	P	P	P	P
12	MONISHA S M	P	P	P	P
13	NAGASHREE S NAIK	P	P	P	P

14	NISCHITHA C N	P	P	P	P
15	PAVANA C N	P	P	P	P
16	POOJA P	P	P	P	P
17	RACHANA L R	P	P	P	P
18	RAKESH B N	P	P	P	P
19	RAYIYA MD RAFIQUE CHANDAVAR	P	P	P	P
20	ROOPINI H H	P	P	P	P
21	S NEHA	P	P	P	P
22	SAHANA B R	P	P	P	P
23	SANJANA R	P	P	P	P
24	SHREERAMYA B S	P	P	P	P
25	T K VARSHITHA	P	P	P	P
26	VARSHA Y	P	P	P	P
27	VIKAS V	P	P	P	P
28	AKSHARA PATEL M	P	P	P	P
29	SAHANA B C	P	P	P	P
31	AISHWARYA S J	P	P	P	P
31	VARSHA G S	P	P	P	P
32	CHETHANA V BHARADWAJ	P	P	P	P

  
Signature of HÖD

  
Signature of Coordinator

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11/10/2019 to 12/10/2019

## Department of Information Science & Engineering

### Report on Two Day Workshop on “Data Science Using R”

Workshop on Data Science using R	
Goal	<ul style="list-style-type: none"><li>• Get to know the basic concepts of R tool.</li><li>• Hands on experience on data preparation and data cleansing</li><li>• Work with complex data sets and understand how to process data sets.</li><li>• Get to know how object-oriented programming is done in R tool.</li><li>• Explore graphs and the statistical measure in graphs</li></ul>
Coordinator	<ol style="list-style-type: none"><li>1. Mr.Rakesh S Raj</li><li>2. Mr.RaghurameGowda</li></ol>
Date	11 /10/2019 to 12/10/2019
Objective:	R is a programming language, possesses an extensive catalog of statistical and graphical methods. It includes machine learning algorithm, linear regression & time series
Evaluation	This workshop helps to know about statistical inference, data analysis and data mining algorithm. Data analysis with R is done in a series of steps; programming, transforming, discovering, modeling and communicate the results.
Number of Participants	32

  
Signature of H.O.D  
Dr. S Sampath

  
Signature of the Coordinator  
Rakesh S Raj

|| Jai Sri Gurudev ||  
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## Department of Information Science & Engineering

### Feedback Collected through Google Form

Feedback Form of workshop on "Data Science using R"

Presenter: Sathish Kumar S R

How do you rate the usefulness of the content ?

1 2 3 4 5

Bad      High

How do you rate the Hands on activities ?

1 2 3 4 5

Bad     High

How do rate presenter's knowledge in the domain ?

1 2 3 4 5

Average     Bad

How do you rate the presenter's style of teaching ?

Too Fast  
 Too Slow  
 Just Right

Was the workshop above or below your current skill ?

Above  
 Below  
 Just Right

Do you recommend the workshop to others ?

Yes  
 No

Was the program well placed in the allotted time ?

Yes  
 No

What skills do you learn from this workshop ?

good

Any suggestions?

none

The online survey report has been generated by  
Google Forms

*Sathish Kumar S R*

*Sathish Kumar S R*



॥ Jai Sri Gurudev ॥

Sri Adichunchanagiri Shikshana Trust (R.)

**ADICHUNCHANAGIRI INSTITUTE OF TECHNOLOGY**

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Ref.:AIT/IS&E/ 085 /2019 - 20.

Date: 12-10-2019

**ATTENDANCE CERTIFICATE**

This is to certify that Prof.Santhosh Kumar.D.K, Department of Computer Science & Engineering, Canara Engineering College,Mangaluru conducted a two days workshop on "Data Science using R" at Dept.of ISE,AIT,Chikkamagaluru on 11<sup>th</sup> and 12<sup>th</sup> October 2019.

(Dr.S.Sampath) 12-10-19

Professor & HOD

Department of Information Science & Engg.  
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