



# ONLINE WORKSHOP ON MACHINE LEARNING USING "R"

( 21<sup>st</sup> December - 25<sup>th</sup> December, 2024)

**Organized by**

**Resilient Foundation For Academic Innovation  
& Scientific Research, New Delhi**  
(Registered with NITI Aayog, Govt. of India)



# Online Workshop on Machine Learning using "R"

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## About the Workshop :

Artificial intelligence and machine learning are advanced computational tools used for analyzing the large amount of data. These techniques provide efficient way of analysis without the requirements of any statistical assumption. Machine learning techniques are widely used in all the domain for data analysis purpose.

Application of various statistical software make data analysis easy and time- saving. R is a free statistical software and widely used by the professionals and researchers. This workshop is dedicated for theory and hands on advanced machine learning techniques along with interpretation of results.

## About Resilient Foundation :

Resilient Foundation for Academic Innovation & Scientific Research, New Delhi is a not-for-profit organization registered under section 8 of the companies' act 2013, India. The organization is established having primary aim to promote academic & research activities through knowledge sharing, innovation, skill development and capacity building in various sectors like academia, industry and government for betterment of society. For more details please visit

<https://theresilientfoundation.org/>

# COURSE CONTENT OF THE TRAINING PROGRAM

	Days	Topics Covered
1	Day 1 ( 21 <sup>st</sup> December , 2024) Timing: 06:30 PM- 08.30 PM	<ul style="list-style-type: none"><li>❖ Introduction to R and R Studio</li><li>❖ Handling of R, Data Structure</li></ul>
2	Day 2 ( 22 <sup>nd</sup> December , 2024) Timing: 06:30 PM- 08.30 PM	<b>Supervised Machine Learning</b> <ul style="list-style-type: none"><li>❖ Simple and Multiple Linear Regression</li><li>❖ Logistic and Poisson Regression</li><li>❖ Hands on using R software</li></ul>
3	Day 3 (23 <sup>rd</sup> December , 2024) Timing: 06:30 PM- 08.30 PM	<ul style="list-style-type: none"><li>❖ Decision Tree and Random Forest</li><li>❖ Hands on using R software</li></ul>
4	Day 4 (24 <sup>th</sup> December , 2024) Timing: 06:30 PM- 08.30 PM	<ul style="list-style-type: none"><li>❖ Naïve-Bayes Classification and Time Series Analysis</li><li>❖ Hands on using R software</li></ul>
5	Day 5 (24 <sup>th</sup> December , 2024) Timing: 06:30 PM- 08.30 PM	<b>Unsupervised Machine Learning</b> <ul style="list-style-type: none"><li>❖ Cluster Analysis</li><li>❖ Principal Component Analysis</li><li>❖ Hands on using R software</li></ul>

## Workshop Rule

- ❖ Registration for all the participants of the Training is mandatory. Registered participants will be given e-certificates.
- ❖ All the sessions will be live and delivered by eminent resource person.
- ❖ Study material in the form of video recording of all sessions will be provided to all registered participants.

For further queries, please contact us at:

[info@resilientfoundation.in](mailto:info@resilientfoundation.in), +91-8840112492

## REGISTRATION & PAYMENT DETAILS

Details of Registration Fees:

**Registration Fee: INR 500/- (Non-Refundable)**

**For registration & payment please click on the given link:**

**<https://theresilientfoundation.org/current-events/>**

## Note

After successful payment, the participants will receive a confirmation via email. Please keep checking the spam folder of the email as the bulk email sent may end up in the spam folder. An official group has been made for communication with the participants on "Whatsup." The link to join the official group will be provided in the confirmation mail.

## About Resource Person



### **Dr. M. Ramakrishnan**

Dr. Ramakrishnan is Assistant Professor, P.G and Research Department of Mathematics, Ramakrishna Mission Vivekananda College, Mylapore, Chennai. Dr. M.Ramakrishnan has done his Ph.D in Mathematics- Statistics from the University of Madras. He has twenty six years of teaching Experience in Mathematics. His specializations are Mathematical Statistics, Ordinary Differential Equations. His Research area is Survival Analysis. He has expertise in handling Softwares SPSS, STATA, R Programming, WINBUGS, EXCEL and SCILAB. He has published Research Papers in National and International Journals and Presented Papers in many National and International Conferences in the field of Survival Analysis throughout India. He has conducted several R courses in all over India.

## Chief Patron



**Prof. Dev. D. Sharma.**  
Executive Director. The  
Global Knowledge  
Foundation ( GKF), USA.

## Patron



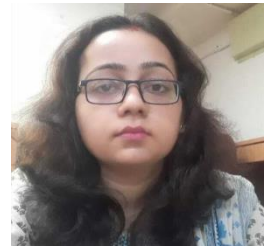
**Prof. D.S.Hooda**  
(Former PVC, Kurukshetra  
University), Honorary Professor, GJ  
University of Science & Tech, Hisar

## Program Chair



**Prof. D.K.Sharma**  
University of Maryland, USA

## Chair Person



**Richa Singh**  
Director  
Resilient Foundation for Academic  
Innovation & Scientific Research,  
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## Organizing Team



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